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1933

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ELECTIONS

H.-E.P C. REPORT

Ontario Department of Agriculture

REPORT

OF THE

Minister of Agriculture

Province of Ontario

FOR THE YEAR ENDING OCTOBER 31, 1931

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 21, 1932

ONTARIO

TORONTO
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1932

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REPORT

OF THE

Minister of Agriculture for Ontario
1931

To The Right Honourable Sir William Mulock, K.C.M.G.,
Administrator of the Government

May It Please Your Honour:

I have the honour to submit the Annual Report of this Department for the fiscal year ending October 31st, 1931.

The climate during the past season was good, and generally speaking crops were abundant. The most disquieting feature of farm operations was the very low prices obtainable for all farm produce.

Returns received by the farmer for his produce over the past few years challenge all who supply him with goods and services. According to a special analysis based upon the actual value of agricultural products, the purchasing power of the farmer has declined by more than one-third since 1929. This decline in the price of raw materials has not been accompanied by any corresponding decline in the price of manufactured goods, which has made farm operations extremely difficult. The history of prices will probably repeat itself and raw materials rise somewhat in value, but the purchasing power of the farmer will not be restored to normal until retail prices are still further lowered.

One of the brightest spots of the Department's work this year is in connection with the Junior Extension work with 'teen age boys and girls. Judging from this season's response, the growth of the movement will be governed only by the amount of time that it will be possible for the Agricultural Representatives and their assistants to devote to this phase of extension work.

Through the creation of the Ontario Marketing Board in May, 1931, it was felt that a leadership and service would be provided to Ontario agriculture in the marketing of farm products that has been lacking heretofore. The Board has been particularly active since its formation. Some conception of the field for efforts along marketing lines can be seen if one considers present conditions surrounding the milk products industry, the live stock industry, the fruit and vegetable industry and the many distribution problems facing producers of cash crops.

A study was made of the need for cold storage facilities throughout the Province for fruits and vegetables and a programme embracing the anticipated requirements for the next five years was submitted. As a result of this survey, assistance was given this year to the erection of six new cold storage warehouses at points of production throughout the Province. These facilities, modern in every degree, were of unusual service last year, because of the exceptionally long hot season. Meanwhile a ten-year cold storage programme embracing the needs of all branches of agriculture is in course of preparation.

The Department has been anxious to assist the live stock industry, especially in the production of premium stock. In this work the Department has endeavoured to co-operate with leading stockmen and Federal Government agencies. Marked improvement in the quality of the live stock owned by Ontario farmers has resulted during the last few years from the premium granted on stallions coming up to certain high standards; the bonus system on the purchase of pure-bred bulls and high-grade rams, and the organization of Bacon Hog Clubs. Increasing numbers of farmers are taking advantage of the assistance offered them.

Our educational institutions have been quite active. The attendance of students at the Ontario Agricultural College, Macdonald Institute, the Ontario Veterinary College, and at the Kemptville Agricultural School has surpassed all previous records. It is equally gratifying to note that the one-month and three-month short courses have been well attended. This interest is particularly encouraging and augurs well for the future prosperity of agriculture in this Province.

A brief statement of the activities of the various Branches of the Department will be found in the accompanying pages, which should prove of much interest.

All of which is respectfully submitted.

THOMAS L. KENNEDY,
Minister of Agriculture.

ONTARIO AGRICULTURAL COLLEGE AND EXPERIMENTAL FARM

1931

COLLEGE ATTENDANCE

With a record enrolment of 2,638, the College is faced with problems of dormitories, dining-hall space and crowded class rooms and laboratories. In the Agricultural Courses, 562 registered. This is over 150 above that of the previous year. Of this number, 383 are taking the Degree Course, 170 are in the Associate Course, while nine are taking Special Courses. Six girls are enrolled in the Agricultural Courses.

Macdonald Institute has an enrolment of 219, while Trent Institute has seven.

The Winter Short Courses in dairy subjects, animal husbandry, crops, poultry, apiculture, horticulture, agricultural engineering and home economics were attended by 770.

While the first two units of the new Students' Residence provided more than one hundred beds in excess of the number available in old Johnston Hall, yet the number of boys in attendance made it necessary to use space in several of the other buildings. Temporary rooms have been established in the old Horticultural Building, Agricultural Engineering Building, Agricultural Economics Building, in the old Bursar's Home formerly used by the girls, and in a residence near the Poultry Plant. In addition to all this, it was necessary to assign some forty agricultural students to rooms and homes in the College vicinity and in the city. All of the students of the Veterinary College were compelled to seek rooms in the city. Increased accommodation for girls was provided through the new Girls' Dormitory, now known as Watson Hall.

The Dining Hall facilities were enlarged through the use of the old cafeteria on the ground floor, which accommodates 168 students. The Employees' Dining Room has been used for another 75 students. The new cafeteria, which will be open about January 1st, will be used to meet the needs of transients, special meals for students and especially arranged banquets and parties.

Attendance Increases

Practically every course given at the College this year showed a substantial increase over last year's figures for attendance. It is gratifying to note that the total attendance in all courses this year of 2,638 is the highest in the history of the College, the previous record in 1920 being 2,386.

The attendance in the various courses is as follows:

(Figures for general courses include students of the Winter term and new students of the Fall term, 1931.)

General Course	657
Specialists in General Course Work	21
Poultry Specialists (One Year Course)	5
Dairy Courses	203
Live Stock and Field Crops	254

Farm Drainage	4	
Poultry Raising	42	
Horticulture	144	
Apiculture	9	
Farm Mechanics	23	
Farm Power	20	
Baking School	36	
Spray Service (two days)	35	
		1,453
Domestic Science (at Macdonald Institute)		515
Girls' Conference (Junior Women's Institute)		224
Home Economics (two weeks)		36
Summer Courses:		
Intermediate Course—1st year, 49; 2nd year, 55	104	
Elementary Course—1st year, 143; 2nd year, 155	298	
Mechanics	8	
		410
Total		2,638

ANALYSIS OF COLLEGE ROLL (GENERAL COURSE), 1931

From Ontario

Algoma	2	Kent	11	Prince Edward	2
Brant	10	Lambton	8	Rainy River	2
Bruce	22	Lanark	8	Renfrew	6
Carleton	27	Leeds	5	Russell	7
Dufferin	9	Lennox and Addington	1	Simcoe	21
Dundas	5	Lincoln	16	Stormont	1
Durham	12	Middlesex	12	Sudbury	1
Elgin	16	Muskoka	2	Temiskaming	4
Essex	11	Northumberland	7	Thunder Bay	8
Frontenac	2	Norfolk	12	Victoria	4
Glengarry	4	Ontario	6	Waterloo	10
Grenville	3	Oxford	17	Welland	23
Grey	8	Parry Sound	3	Wellington	57
Haldimand	8	Peel	12	Wentworth	20
Halton	19	Peterborough	12	York	66
Hastings	1	Perth	16		
Huron	13	Prescott	2		
Total from Ontario					544

From Other Provinces of the Dominion

British Columbia	6	Manitoba	1	Prince Edward Island	6
New Brunswick	5	Nova Scotia	3	Quebec	4
Total from other Provinces					25

From Other Countries

Cuba	1	British West Indies	3	Scotland	10
Bermuda	1	Ireland	1	Ukraine	1
England	44	Newfoundland	2		
Japan	2	South Africa	2	Total from other Countries	78
Holland	2	U.S.A.	6		
Switzerland	1	Wales	2		
Total					657

RESEARCH PROJECTS

Research work continues to occupy an important place in the programme of the College Departments. A number of new projects have been organized and started during the year. Other projects already underway have shown most interesting results and have given opportunity for a report of progress.

During the past three years, a special effort has been made to place the research work on a project basis. The larger subjects of investigation are found to extend beyond the limits of an individual department as organized in the College. The problems involved in a project demand in many cases the co-operation and assistance of the workers in several departments. It seems important, therefore, that the various interested departments should have opportunity to join in the planning of the project and in deciding on the various phases to be undertaken. This active co-operation augurs more effective research and more worthwhile results. The Staff of the College has adopted this plan and our work is going forward in a most satisfactory manner.

Pasture Improvement

In April, 1931, the President called a conference of the representatives of the Department of Animal Husbandry, Field Husbandry, Agricultural Economics, Chemistry, Botany and Entomology, and the Veterinary College, to determine plans for research studies on Ontario pastures. A committee, representing the Departments of Animal Husbandry, Field Husbandry, Chemistry and Agricultural Economics, was appointed for the purpose of a survey of the pasture lands of the Province. This committee determined upon a study covering the following points: (1) The principal pasture regions, (2) The existing flora, grasses, clovers and weeds, (3) Production and carrying capacity, (4) Methods of grazing and live stock management and the economic relations involved in live stock and dairy production with respect to pastures in the Province.

The committee made a systematic survey of the counties, working in co-operation with the Agricultural Representative, so that important pastoral areas and representative farms were visited in each county comprising: (1) The western beef area, (2) The Oxford dairy section, (3) The mixed farming area of the central counties, (4) The dairy section of Eastern Ontario, and (5) The ranching area north of Peterborough.

Later, two enumerators went into each of the pastoral regions and on the advice of the Agricultural Representative visited a number of representative farms and collected definite data, which has been summarized in the report.

On the basis of this report, a definite series of experiments will be planned for the coming year.

Vegetable Production

Cultural and fertility problems confront the Ontario vegetable growers. There is now a scarcity of farm manure and the high price of shipping such material calls for the consideration of methods of supplying humus and the various necessary elements of fertility. On the recommendation of the Ontario Vegetable Growers' Association a project covering these problems has been organized. The co-operating departments include Horticulture, Chemistry, Botany, Vineland Experiment Station and the Dominion Experimental Farm at Harrow. A series of permanent plots have been laid down at Guelph, Vineland, Harrow and London. It is hoped that this study will answer some of the urgent questions of the vegetable growers.

Cold Storage for Vegetables and Fruits

This project, organized during the past year, comes as a result of urgent requests on the part of fruit growers, vegetable growers and the Ontario Marketing Board. W. H. Smith, B.A. (Cantab.), of Emmanuel College, Cambridge, was secured to take charge of the work. Mr. Smith has had experience in cold storage and low temperature work at the Low Temperature Experiment Station at Cambridge, England.

The new equipment in the Horticultural Building makes possible this research. Eleven rooms under refrigeration, and equipped for research work, offer the opportunity for some far-reaching studies. Already results of great value to fruit growers and vegetable growers have been secured and reported upon. In this project, the Department of Horticulture has the full co-operation of the Departments of Botany, Chemistry, and Agricultural Engineering.

Tomato Investigations

A research project on the tomato crop was organized in April, 1930, with the Departments of Horticulture, Chemistry and Botany co-operating. The purpose of this study is to determine the fertility needs of soils used in the production of tomatoes in Prince Edward, Northumberland, Durham, and Hastings Counties. Special attention is given to the effect of fertility on the quality of the tomato. An important phase of this study is the treatment of plants for disease. These treatments are made on the seed, the small plants in the greenhouses, in the cold frames and in the field. A large number of the best varieties of tomatoes secured from the many breeders and institutions are being compared for yield, quality and disease resistance. The problems of grading tomatoes at the time of harvesting is also receiving attention.

Investigation of the Dietary Factors as They Effect the Hatching Power of Eggs

A study of proteins in the rations for laying hens has been carried on for the past three years in co-operation with the Empire Marketing Board, London, England. An annual report of progress has been made to the Minister of Agriculture and to the Empire Marketing Board on the work accomplished. During the year a report on "Results of a Three Years' Study of Certain Poultry Rations as they Effect the Hatching Power of Hen Eggs as well as the Number of Eggs Laid" has been published and distributed. This important project is yielding results of great value to the poultry industry.

Contagious Abortion

In co-operation with the Ontario Research Foundation, investigations are underway on contagious abortion in cattle. An isolation barn has been built and separate pastures are maintained for the animals reacting to the test. Special study is being made of the control of the disease, the opportunity of taking the young from these infected animals and saving them, and to the methods of control which should be followed under average farm conditions.

Orchard Fertility Studies

In co-operation with the Norfolk Orchards, Limited, of Norfolk County, the Departments of Horticulture and Chemistry are co-operating in orchard fertility experiments to determine the effect of fertilizer on the growth of trees and the production and quality of fruit.

The Fixation of Phosphorus and Potassium in the Soil

Special studies on the fixation and availability of phosphorus and potassium in Ontario soils has been undertaken with the financial support of Mr. C. H. Houson of the Canada and Dominion Sugar Company at Chatham. Mr. H. W. Lohse has been appointed and is carrying forward the work, the object of which is to determine the amounts of readily soluble phosphorus and potassium in typical soils of Southern Ontario, and to determine the capacity of these soils for fixing added soluble phosphorus and potassium. This is a very definite problem and of great importance to the farmers of a number of large areas in the Province.

Weed Control

In a study of the problems of weed control, a special project has been outlined with the Departments of Botany and Field Husbandry co-operating. A fellowship has been granted by the Ontario Government to W. M. Gammon, who is giving full time to the work. Already some interesting results have been secured on the use of chemical weed destroyers. Work has been undertaken on the use of special machines, crop rotation and fertilizers.

Factors in Milk and Fat Production

A project on factors in milk and fat production has been undertaken by the Department of Animal Husbandry in co-operation with the Department of Chemistry. The object of this project is to make a detailed study of the fat content and total solids in milk throughout the entire lactation period of the cows under investigation. Special attention will be given to the effect of weather conditions, time and method of milking, rations and management.

Anaemia in Pigs

The Department of Animal Husbandry, in co-operation with the Ontario Veterinary College, has undertaken a study of anaemia in young pigs. The mortality in young pigs has been unusually high and has brought great loss to the farmers of the Province. This study covers the use of iron sulphate or reduced iron, ultra-violet ray, and different forms of vegetation in combating this disease.

American Cyanamid Company Fellowship

This fellowship, for which funds are provided by the American Cyanamid Company, provides for investigations on the value of cyanamid as a source of nitrogen for apples, grapes, peaches and raspberries. This work will be enlarged this coming season to include the cereal crops. A special study will be undertaken to determine the value of this product in controlling weeds. Work has been undertaken in the greenhouses to determine the value of cyanamid as compared with other sources of nitrogen in the growth of barley and other crops.

Processing and Straining Honey

Studies have been undertaken by the Department of Apiculture on the temperature which will give the most rapid crystallization of honey—the proper straining and the removal of colloide from honey and the determination of the consistency of processed honey. This work is the outgrowth of investigations resulting in the process of a better crystallization of honey. It will be of great importance in the handling of the large honey crop produced in this Province.

ONTARIO VETERINARY COLLEGE

The student enrolment is being maintained at a satisfactory level. A total of 79 students were in regular attendance during the spring term ending April 30th, 1930, and for the fall term of the present session a total of 113 students are enrolled. Twenty candidates received the degree of Bachelor of Veterinary Science (B.V.Sc.) at the convocation of the University of Toronto held on April 29th, 1931. It is very encouraging to be able to report such a noticeable improvement in the attendance in spite of the unusual business conditions. Students are again in attendance from each of the Provinces of Canada, and from Great Britain and other parts of the British Empire, as well as from many parts of the United States. An analysis of the enrolment this session indicates that 72 students are from Ontario and other parts of Canada, 8 are from Great Britain and the Empire, and 33 are from the United States.

RESEARCH AND INVESTIGATIONAL WORK

During the past year a consistent effort has been made to deal with several disease problems which appeared to be of special importance. In planning this work it was so arranged as to avoid, as far as possible, the duplication of similar work being conducted elsewhere, and a repetition of experiments unless necessary. Considerable time and attention was devoted to the prevalence of nutritional diseases affecting animals in certain localities. Incidental thereto a special survey was undertaken in co-operation with the Ontario Agricultural College to determine the incidence and distribution of osteomalcia in cattle. To obtain this information over fifteen hundred cattle were examined on sixty different farms throughout the older settled sections of eastern and western Ontario. Further progress was made in respect to the prevention and treatment of anaemia in suckling pigs. A more satisfactory treatment was found in the use of reduced iron, and this information has been made available in a special bulletin printed for general distribution as a means of lessening the mortality from this disease. Very favourable reports have been received as to the merits and beneficial results of the treatment recommended.

Special research work was undertaken in connection with a disease affecting a large number of milch goats, characterized by a severe inflammation of the gall bladder resulting from bacterial infection. Further investigations were made in respect to unusual diseases of horses occurring in the Temiskaming district of Northern Ontario. A survey was made in the affected districts and some of the cases were found to be characterized by cirrhosis of the liver, believed by some to be associated with intensive pasturing on and the feeding of alsike clover hay. Feeding and other experiments are still in progress relating to these cases, but the work has not been sufficiently covered to warrant a definite report as yet.

In collaboration with the Ontario Research Foundation work was carried on with a number of calves to determine local variations in the habits of warble flies, together with experiments to produce artificial immunity, and upon the value of salt solutions of a larvicide.

PUBLIC EXTENSION SERVICE

This is a field of useful public service which is becoming more widely appreciated by those receiving help. It provides for live stock owners throughout the Province the benefit of highly trained clinical and laboratory assistance for the scientific diagnosis, control and prevention of disease. An increasing number of animals and specimens were received for examination during the year. At the surgical clinics 825 animals were presented for operative treatment, 2,619 specimens were received for laboratory examination, 21,333 poultry blood samples were submitted to the agglutination test for pullorum infection, and in addition sufficient of the pullorum antigen or test fluid was prepared and supplied to take care of over 40,000 additional tests, 6,717 cattle blood samples were submitted to the agglutination test for contagious abortion; 2,775 doses of killed culture abortion vaccine were supplied on request of veterinarians and owners for this treatment.

It is gratifying to note that the need and value of veterinary education and training as a public service is greater to-day than ever before and is becoming more widely recognized. This statement is based on two fundamental facts of importance to the well being and prosperity of the Province:

First.—The welfare of public health is being safeguarded through veterinary science by the control of diseases communicable from animals to man with fatal effect.

Second.—The prosperity of live stock development and allied interests is being safeguarded. It is well-known that the human race depends largely on farm animals for food and clothing. If any of the so-called serious animal plagues should gain a foothold here one can readily appreciate the damage that would accrue to both producers and consumers and the losses to allied interests through the dislocation of live stock traffic and marketing, and to trade and commerce in general.

Much of the work carried on during the year is outlined in a separate report of the College which contains a mass of valuable information. Copies of this report are obtainable from the Publications Branch of the Department by all interested parties.

PUBLICATIONS AND STATISTICS BRANCH

The work of compiling agricultural statistics and distributing agricultural publications has been carried on effectively during the present year.

Special effort has been directed towards meeting the demand for prompt and accurate statistics on agricultural conditions and considerable progress has been achieved. These reports are issued in the interest of the general body of Canadian farmers and for the information and guidance of other interests allied to and dependent on agriculture.

The system of crop reporting has been overhauled and greatly strengthened. Through the efforts of the Agricultural Representatives the number of crop correspondents has been increased from 1,000 to approximately 3,500, and each correspondent has been allocated to a definite reporting area so that the Province is uniformly covered. The report on growing conditions collected three times during the season and two schedules on prices has been replaced by a series of monthly reports covering a comprehensive range of agricultural subjects, including such information as intended plantings, condition of crops, average yields per acre, local value, stock on hand, etc.

An innovation of the year 1931 is the taking of a second survey on December 1, confined almost entirely to live stock and poultry, designed particularly to secure information on farmers' breeding, feeding and marketing intentions. It is believed that a census at this time together with the June census will provide adequate statistics for the proper planning of the production and marketing of live stock. This survey has met a favourable reception and approximately 27,000 farmers have returned schedules.

The response to our June crop and live stock census, carried on with the co-operation of the rural school teachers, was greater than for a number of years. Schedules were received from 36,045 farms and this number was greater than in any year since 1921. In 1930 the number was 12,614.

During the past year arrangements have been made for closer co-operation between this Department and the Agricultural Branch of the Dominion Bureau of Statistics. The Bureau will assume the costs of printing all schedules and mailing the same from Ottawa and a considerable saving is expected to accrue to our Department from this arrangement. In addition a greater uniformity in the compilation in the agriculture statistics will be achieved and their usefulness extended.

The publication and distribution of Departmental reports and agricultural bulletins has been continued and during the past year the following reports and bulletins have been printed:

Department Reports:

Minister's Report	1,500
The Ontario Agricultural College	2,000
The Experimental Union	10,000
Agricultural Societies and Field Crop Competitions	7,500
Appendix to Agricultural Societies	4,000
Horticultural Societies	10,000
Vegetable Growers Association	5,000
Ontario Veterinary College	2,000
Agricultural Development Branch	5,000
Stallion Enrolment Board	2,500
Agricultural Statistics	6,000
Fruit Growers Association	2,000
Entomological Society	1,500
Women's Institute	43,000
Total	102,000

Serial No. Crop Bulletins:

185	December, 1930	20,000
186	April, 1931	3,000
187	May, 1931	3,000
188	August, 1931	6,000

Agricultural Bulletins:

270	Judging Vegetables	10,000
305	Diseases of Poultry	6,000
309	Nut Culture in Ontario	2,500
340	Parasites Injurious to Swine	10,000
349	Grain Smuts	10,000
357	Top Working and Repair Grafting, including Budding	15,000
358	The European Corn Borer	30,000
359	Insects Attacking Vegetables	15,000
360	Farm Underdrainage	10,000
361	Farm Water Supply and Sewage Disposal	15,000
362	Results of a three years study of certain poultry rations, etc.	6,000
363	Parasites injurious to Poultry	50,000
364	Manures and Fertilizers	50,000

Circulars without series numbers:

Better English	15,000
Anemia in Suckling Pigs	5,000
Act on the Prevention of Diseases Among Bees	5,000

Miscellaneous:

Swine Ration Cards	10,000
Dairy Ration Cards	10,000

A list of publications available for distribution may be obtained by writing to the Director, Publications and Statistics Branch.

AGRICULTURAL AND HORTICULTURAL SOCIETIES' BRANCH

AGRICULTURAL SOCIETIES

Notwithstanding the fact that the year just closed was one of the worst farmers have experienced this century, in so far as the prices they received for live stock and agricultural products are concerned, they tightened their belts and in greater numbers and increased enthusiasm "went to the fairs." They took with them Ontario's finest live stock and the products of their field husbandry.

Never before in the history of the societies have such exhibitions been staged by growers as those conducted in 1931. The only failures were where heavy rain storms interfered with the attendance and its consequent loss in gate receipts. For such contingencies provision is made by the Ontario Government by a wet weather grant of $10,000 which is distributed among societies on the basis of 90 per cent. of the loss in gate receipts as compared with the average for three previous normal years. The maximum wet weather grant is $500 and the whole appropriation was required to meet losses this year.

Six new agricultural societies were organized in 1931, three of them being in Northern Ontario. There are now 331 societies, ten of this number being stock societies which hold no fairs but utilize their membership fees and grant for the maintenance of pure-bred male animals. This line of work has proven invaluable in certain sections of the Province.

The total grant paid to agricultural societies was $86,000, the sixty societies in Northern Ontario receiving a total of $22,987, their grants being based on double their expenditure for agricultural purposes.

The judges sent out by the Department gave complete satisfaction. Applications were received for 1,303 judges from 250 fairs and complaints as to the work of those selected to do this work were few. At the close of each fair, the secretaries are asked for reports as to the services of the judges supplied, and if any complaints are received, they are promptly investigated.

Societies are charged $6 per diem for each judge on circuit, and where special judges are furnished, the charge is $8, the Department paying the judges' travelling expenses and services.

FIELD CROP COMPETITIONS

Field crop competitions are meeting with the approval of the several hundred Boards of Directors of Agricultual Societies which enter same. The exhibits of the prize-winning grain, clover, and potatoes at the different fairs, including the Canadian National, Central Canada and the Royal were the finest ever staged in Canada. Two hundred and forty-one societies entered these competitions, 202 in the regular and 39 in the combined. Farmers entering the regular field crop competitions are strongly urged wherever possible to sow registered grain, which, of course, gives better results. Experience for the last ten years has shown that only a few outstanding grain growers are in a position to fulfill the requirements necessary to produce crops of grain which will pass the Federal Government inspection for registration.

HORTICULTURAL SOCIETIES

This great organization now boasts of the largest membership of any association doing similar work in any country in the world. The 300 branches have a membership of 80,000 people. Twelve new societies were organized in 1931, and many more sections, both rural and urban, are arranging to come in this year. Their motto is "A More Beautiful Ontario." A pleasing feature is that rural Ontario has caught the spirit of home beautification, and trees, shrubs, vines and flowers are in evidence around the farm homes of this fair Province.

Seventy-five meetings were addressed by lecturers sent out by this Branch of the Department, the travelling expenses being paid by the Central Association while the societies giving the lectures paid a per diem charge to the lecturer.

The official Lecturer on Horticulture, Mr. John F. Clark, during the year delivered addresses to 211 societies and all these meetings were well attended. A number of pamphlets dealing with the different phases of horticulture were prepared by Mr. Clark and widely distributed.

Nearly all horticultural societies stage flower shows during the different seasons of the year which draw a large attendance as they are proving of much educational value. Wonderful floral displays were made at the Canadian National Exhibition and the Royal Winter Fair which attracted a large number of Canadian citizens and also thousands of visitors from other countries. Previous to the organization of our horticultural societies, nearly a quarter of a century ago, such splendid floral displays would not have been possible.

Civic and rural improvement such as the planning of entrances to cities, towns and villages as well as other sections and intersections of roadways and highways have been supervised and planted under the direction of different societies, while much needed work is being done to care for neglected graves in different sections of the Province.

ONTARIO VEGETABLE GROWERS' ASSOCIATION

Among different classes of farmers, few work longer hours or harder than the market gardeners of Ontario. Intensive, indeed, is their type of industry and unfortunately the returns for their labour this year have been meagre. Yet the thousands who visited the Canadian National Exhibition, after viewing the vegetable exhibit in the Ontario Government Building, have rarely ever seen a finer display of garden produce. The Canadian National Exhibition Board gave several hundred dollars in prizes for branch exhibits, the following branches being awarded the prizes in the order named: Toronto, London, Brantford, Kingston, St. Catharines, Scarborough, Peterborough, York.

In earlier years no attempt generally was made to brighten home surroundings in Ontario. Garden competitions, however, are now held which has done much to forward this work including the land on which the house and outbuildings are erected, are judged for this contest. Thirty-one entered the competition this year, and the results have shown that the undertaking was justified. Two hundred and eighty competitors entered the Vegetable Field Crop Competitions from sixteen branches, the following being the crops selected for the competitions: Cabbage, clery, lettuce, melons, onions, potatoes, staked tomatoes, ground tomatoes and field or canning tomatoes. Two hundred and eighty dollars were paid in prices in the garden competition and $2,430 in the field crop competitions.

There was keen competition for the Ontario Vegetable Growers' Trophy at the Royal Winter Fair which was given to the member obtaining the highest number of points in the vegetable section. John Brown of Humber Bay was the successful competitor and received the coveted prize.

ONTARIO PLOWMEN'S ASSOCIATION

The educational work done by the Ontario Plowmen's Association is beginning to reap interesting results. Other provinces of Canada are taking up this work actively and are adopting the rules and regulations of the Ontario organization.

Seventy branches hold matches, and the maximum grant to these is $50. Twenty-one home plowing competitions were held in 1931 in which 243 boys entered, the plowing being done on home farms, and the maximum grant for the same being $25. All these contests, both Junior and Senior, are judged by competent men sent out by the Department.

Plowing demonstrations were staged in Northumberland, Durham, Hastings, Haldimand, Leeds, Peterborough, Glengarry, Perth, Fontenac. Middlesex counties and in Algoma, Parry Sound and Muskoka districts. Four new branches were organized this year, all of them in Northern Ontario where pioneer farmers are taking great interest in the work of this association.

The great clearing centre where plowmen and plowboys gather from all over the Province is the International Plowing Match and Farm Machinery Demonstration held annually in different sections of Ontario. Peterborough County was selected for the 1931 demonstration. There could be seen nearly every type of machinery used on Canadian farms: power-threshing, seed-cleaning, wood-cutting, hay-pressing, ditching, and every type of cultural machines, all in operation. A herd of cattle was housed in a large marque, where the value of milking machines was demonstrated.

A tented city which covered nearly three-quarters of a mile housed the many exhibits. A tent 100 feet long was completely filled with household devices now in use and was crowded each day with the families who attended the demonstration. The grounds were lighted and all power was furnished by the Ontario Hydro-Electric Commission.

Five hundred and five plowmen and boys competed for the several thousand dollars worth of trophies and cash prizes offered by the Plowmen's Association and their friends. The Ontario Government grant to this demonstration is $500, which sum is added to the prize list.

Notwithstanding the fact that it rained during three days of the demonstration, the record was broken in so far as the number of competitors is concerned and the machinery manufacturers exhibiting also set a very high standard.

ONTARIO FIELD CROP AND SEED GROWERS' ASSOCIATION

The above Association has now been operating for nearly twenty years. This is the only association regularly organized under the Agricultural Associations Act which has never received a grant from the Government to assist it in its work. Handicapped by the lack of financial assistance, it has not been in a position to carry out expansion plans that were anticipated some time ago.

The membership has suffered by the extremely low grain prices, but with reasonable financial assistance it should broaden out once more and prove, as in the past, a useful educational organization. The Ontario Government Seed Train on the recommendation of this association was inaugurated and for three successive years was run fully equipped with seed-cleaning machines which were suitable for Ontario farmers. This train proved of considerable educational value, and in many of the sections of the Province through which this train passed, seed-cleaning plants have been established.

LIVE STOCK BRANCH

SHEEP EXTENSION WORK

The Live Stock Branch through the sheep club policy inaugurated in 1928 has continued to organize new clubs and to give supervision through the year to the clubs formed in 1928, 1929 and 1930. There have been organized up to date fifty-seven sheep clubs in twenty-five counties, with a total membership of 717. To each of these members was given a flock of five ewes and a ram. Returns are made to the Department over a period of four years as repayment for the original flock given. The ram is supplied by the Department for two years, after which the flock owner must supply his own ram. As these flocks are placed on farms where sheep have not been kept the members at the beginning are very inexperienced in sheep raising, with the result that supervision of the flocks and education of the members is of utmost importance.

The following table shows the clubs organized during the last fiscal year:

County	Name of Club	Number of Members
Fort William	O'Connor	11
Grey	Meaford Junior Farmers'	11
Huron	Howick	19
Port Arthur	Port Arthur—1931 section	16
Renfrew	Glasgow	14
Welland	Wellandport	10

MARKET LAMB FAIRS

Fairs were held at Emo, Kenora District, Arthur, Markdale, Barrie, St. Joseph's Island, Westport, Cayuga, Middleville, Lanark and Renfrew. At each of these fairs from 100 to 400 lambs were marketed.

RAM GRADING

During the fall of 1931 the policy for ram grading in the Province of Ontario was aggressively carried forward with the result that over 200 breeders applied for this service. The Dominion Department of Agriculture provided the ram graders and approximately 1,500 rams were graded. The Dominion and Provincial Departments have formulated a joint policy for the assisting in the sale of these rams throughout the Province. The following are the regulations which apply:

1. This policy is applicable to any bona fide sheep raiser in the Province of Ontario.
2. No applicant may receive a bonus on the purchase of more than one ram in any one year unless, in the opinion of the Federal and Provincial Departments, the size of his flock justifies the purchase of more than one ram. In such cases special consideration may be given.

3. Assistance will be given only on rams which have been officially graded and marked under the ram grading policy of the Dominion Live Stock Branch.

4. All applications for bonus must be accompanied by the Canadian Registration Certificate for the ram showing the ram to be recorded in the name of the purchaser.

5. All applications for bonus shall be made in duplicate to the Ontario Live Stock Branch, Parliament Buildings, Toronto.

6. Any ram on which a bonus has been paid shall not be eligible for any bonus in future.

7. Upon receipt of properly completed application forms and Canadian Registration Certificates the following bonuses may be paid upon graded rams:

On the purchase of:	Bonus payable by Ontario Department to Purchaser	Bonus payable by Dominion Department to Purchaser
Rams costing $15 or more....................	$5.00	$5.00
Rams costing $14 and under $15...............	4.50	4.50
Rams costing $13 and under $14...............	4.00	4.00
Rams costing $12 and under $13...............	3.50	3.50
Rams costing $11 and under $12...............	3.00	3.00
Rams costing $10 and under $11...............	2.50	2.50

8. To the breeders of XXX rams, when such rams are sold to Ontario purchasers for use in Ontario, the Ontario Department of Agriculture may grant a bonus not exceeding $5.00 to the breeder.

THE DOG TAX AND SHEEP PROTECTION ACT

During the past year nine appeals have been received and the following counties have been represented: Dufferin, Frontenac, Glengarry, Grey, Huron, Lambton, Perth, Welland, and Wentworth.

EXHIBITIONS IN SHEEP

Possibly owing to the fact that sales of sheep for export to United States were dull during the past season thus leaving practically the entire holding of good sheep within the Province, our sheep fairs have been the best that have been held in years.

Ontario's record as a sheep-raising centre has been again well upheld when our exhibitors have clashed in competition with exhibitors from other provinces and other countries. In the inter-provincial car-lot competition of market lambs at the recent Royal Winter Fair, Ontario was successful in winning first and third prizes and at the great Chicago International Exhibition our long-wool breeders again repeated their winnings of other years by practically sweeping everything before them. In Southdowns a new exhibitor from our Province, Mr. J. D. Patterson of Richmond Hill, made practically a clean sweep of the Southdown breeding classes. In Shropshires, with one exhibitor, Mr. H. N. Gibson, Ontario, won one championship and approximately 40 per cent. of all the leading prizes. Col. Robt. McEwen and Sons of London continued their remarkable winning in the car-lot competitions for market lambs by again winning first and championship. This makes a record of eight times out of nine that this firm has been successful in this competition.

LIVE STOCK WINNINGS AT CHICAGO, 1931

Ontario was represented in the Shorthorn classes at the 1931 international Show at Chicago by the following: Col. F. H. Deacon, Unionville; Duncan Campbell, Moffat; T. A. Russell, Downsview; Jonas Bingeman & Son, Waterloo, and G. L. Smith, Meadowvale.

In the regular Shorthorn classes Col. Deacon succeeded in winning the junior championship on his junior yearling heifer "Princess Rosewood" and she was later made grand champion female of the show. He also won first on senior yearling bulls while on summer yearlings he was second. In addition Mr. Russell won fourth and fifth on aged bulls and third on summer yearling bulls.

In the junior bull calf class Duncan Campbell won seventh while in the group of best three bulls Col. Deacon won fifth and in the group of two bulls Col. Deacon was fourth and Mr. Russell eighth.

In the two-year old heifer class Col. Deacon was second and in the senior yearling class Mr. Russell was third. In the junior yearling heifer class Col. Deacon was first as before mentioned and Duncan Campbell was fourth. In the summer yearling class for heifers Col. Deacon was fifth and ninth, and in the senior heifer calves he was fourth and tenth and Mr. Russell sixth. In the junior heifer calves Mr. Russell was fifth and Col. Deacon eighth and tenth. In the group classes Col. Deacon was fourth for get of sire, first for pair of yearlings and ninth for pair of calves.

In the milking Shorthorns, G. L. Smith won the first and senior and grand champion with his aged bull. He was also fifth on two-year-old bull, third on cow in milk, second and fifth in the milking heifer class, third for heifer calf, fourth for graded herd and sixth for best three cows. Jonas Bingeman & Son won first for cows in milk and this same cow, "Roan Pansy," was later made senior and grand champion female. His other winnings were second on yearling bull, fourth on two-year-old heifer and fifth on senior yearling heifer.

In the Aberdeen Angus breed Ontario was represented by Edwards Bros., Watford, who exhibited three calves. One of these calves won the junior bull calf class and was later made junior champion. Another calf won seventh in the senior heifer calf class and the third heifer was placed fourth in the junior heifer calf class. Two of these calves were placed second for the best pair of calves.

In Herefords, Ontario was represented by one exhibitor, M. J. O'Brien Ltd. of Renfrew, and this firm was successful in winning first on three-year-old bull, first on two-year-old bull, second on senior bull calf, second on junior bull calf, first on group of five bulls, first on group of three bulls, third on two bulls, first on cow, first and second on senior yearling heifer, first on junior yearling heifer, second on summer yearling heifer, first and second on senior heifer calf and first and second on junior heifer calf. They also won senior championships on bulls and senior, junior and grand championship on females. In the groups they won first and third for get of sire, first and second for two females, third for pair of yearlings and first for pair of calves.

LIVE STOCK AT THE NATIONAL DAIRY SHOW, ST. LOUIS, 1931

The Jersey breeders of Ontario were represented by B. H. Bull & Son, Brampton; E. W. Nesbitt, Woodstock; J. W. Innes, Woodstock; James Bagg & Son, Edgeley; Fred J. Bagg, Unionville; W. B. Cleland, Troy, and E. T. Stephens, Richmond Hill, with thirty animals at St. Louis, and considering the amount of export of the choicest Jerseys from Canada to the United States it was really very creditable the standing that the Jerseys made.

The Ayrshires were represented by one herd which made its presence felt in almost every class in which entries were sent forth. The junior championship on the home-bred heifer, the winning get-of-sire group, the senior yearling heifer class and the bull calf classes were among the top honours won by the noted Glen Campbell herd.

The cost of transportation and entry fees of the Ontario exhibitors at the International at Chicago and the National Dairy Show at St. Louis is paid by the Ontario Department of Agriculture through the Live Stock Branch.

BACON HOG CLUBS

This policy was instituted in 1922 for the purpose of improving the commercial hogs in the Province through the use of better sires. It aims to place swine improvement work on a community basis, hence clubs consisting of ten or more members may loan an approved boar from the Ontario Live Stock Branch. Two hundred and ninety-seven such clubs were in existence on the 31st of October, 1931. Of this number ninety-eight were started during the past fiscal year. One hundred and sixty-eight boars were purchased during the year for use in these new clubs and also for replacement in some of the old clubs. These clubs are distributed throughout the Province as follows:

County	Clubs October 31, 1931	New Clubs formed, 1931
Algoma	1	1
Brant	4	..
Bruce	24	8
Carleton	5	1
Dufferin	5	2
Elgin	9	3
Essex	3	2
Glengarry	4	1
Grey	18	3
Haldimand	5	2
Halton	3	..
Hastings	15	6
Huron	21	12
Kent	5	4
Lambton	13	7
Lanark	6	1
Leeds	4	2
Lennox and Addington	2	1
Middlesex	18	5
Muskoka	1	1
Northumberland	12	2
Ontario	2	1
Oxford	10	6
Peel	3	..
Perth	14	1
Peterborough	3	..
Prescott	2	..
Prince Edward	2	..
Renfrew	5	2
N. Simcoe	17	7
S. Simcoe	11	3
Thunder Bay	7	2
Victoria	8	2
Waterloo	8	..
Wellington	19	9
Wentworth	5	..
York	3	1
	297	98

In connection with the improvement work in bacon hogs, the Ontario Live Stock Branch co-operated with the Dominion Department of Agriculture in the selecting and placing of bacon-type open sows in various districts throughout the Province. The Ontario Department paid freight or express charges, as the case might be, in the distribution of these animals. Through the Agricultural Representatives bacon hog clubs were organized in the districts where sows were placed and good sires were sent so that these good young sows might be bred with the idea of improving the standard of the bacon hogs in the districts.

BACON LITTER COMPETITION

This competition which was organized in 1929 was again held this year through the co-operation of the Dominion Live Stock Branch and the Live Stock Branch of the Province of Ontario. The Province was divided into five districts for the purpose of the competition and the following prizes were offered in each district: First, $25; second, $24; third, $23; fourth, $22; fifth, $21; sixth, $20; seventh, $20; eighth, $15; ninth, $15; tenth, $15; eleventh, $15; twelfth, $15; thirteenth, $15; fourteenth, $15; fifteenth, $15.

The purpose of the competition is to identify grade-brood sows of outstanding breeding qualities hence such points as size of litter, rate of gains and type as compared with market requirements are given most prominence. It aims to give due recommendation to those sows that prove economical producers in the hope that female offspring may be retained as foundation brood sows in their respective districts.

Two hundred and five litters farrowing between February 14th and April 30th were entered in this competition and of this number 116 completed the feeding period and 94 qualified with a total of nine or more pigs in each litter grading at least 30 per cent. select. The following table summarizes the results of the competition:

District	Number Winning Prizes	Average Number Pigs Farrowed	Average Number Pigs Marketed	Average Age in Days	Average Weight per Pig	Per Cent. Select Bacon
No. 1	12	13.4	10.2	188.2	208.3	60.9
No. 2	15	13.9	10.	192.4	203.8	51.6
No. 3	15	13.	10.9	180.7	203.	65.2
No. 4	15	12.9	11.3	182.2	210.6	65.8
No. 5	15	12.4	10.2	179.1	203.6	70.5
	72	13.1	10.5	184.3	205.8	64.3

Of the seventy-two prize-winning litters twenty-four were sired by boars loaned to Bacon Hog Clubs through the Ontario Live Stock Branch. Furthermore four of the first prize district winning litters were sired by Bacon Hog Club boars.

The following table summarizes the results of the competition during the three years of its existence:

Year	Average Weight when Marketed	Average Age when Marketed	Average Size of Litter	Per Cent of Select Bacon
1929	216.6	181.4	11.2	59.1
1930	203.7	188.9	10.8	58.2
1931	205.8	184.3	10.5	64.3

Bacon Hog Fairs

Bacon hog fairs were held in co-operation with the Dominion Live Stock Branch at Alexandria on August 18th, 1931, and at Glencoe on October 5th, 1931. Demonstrations in breed type and market type were features of the fairs. Generous prizes were offered with the result that there was keen competition in all classes at both fairs.

Bacon Hog Field Days

Provincial bacon hog field days were held at Kemptville Agricultural School on Saturday, June 6th, and at the Ontario Agricultural College on Wednesday, June 10th, and Thursday, June 11th. In addition a local field day for farmers of Simcoe and the adjacent counties was held at Bond Head on June 17th. All of these events were well attended. Demonstrations in breed type and market type were featured following which separate classes of both types of hogs were judged and the individuals in the classes compared and discussed. Classes of hog carcasses were exhibited at the two Provincial field days and comparisons made. These classes served a very useful purpose in demonstrating both the desirable and the undesirable points in the market hog. A discussion by the Provincial Zoologist on parasites in swine was a feature at all of these field days.

Sales

A consignment sale of pure-bred swine was held by the South Simcoe Swine Breeders' Association at Alliston on March 24th. Financial assistance to the amount of $249 was given to the Association for the purpose of defraying expenses in connection with the sale. Eighty-three head of pedigreed swine were sold at this sale. They went to buyers fairly widely distributed throughout the Province. Judging by the success of this sale such events should become quite popular.

LIVE STOCK IMPROVEMENT

The following counties have now been declared Better Bull Areas: Brant, Bruce, Dufferin, Middlesex, Oxford, Peel, Perth and Wellington. In order for a county to be declared such there must be at least 80 per cent. of the bulls within the county pure bred.

A 20 per cent. bonus is paid to farmers in Old Ontario who have not previously owned a pure-bred sire. The following table shows the assistance given:

County	Number of Applications for Bonus	Amount of Bonus
Brant	10	$133.50
Bruce	29	652.40
Carleton	6	90.00
Dufferin	12	159.12
Dundas	11	122.00
Durham	14	251.50
Essex	4	74.60
Grey	2	85.00
Halton	9	165.00
Hastings	4	106.00
Huron	15	293.00
Lambton	30	627.60
Leeds	3	30.00
Middlesex	38	672.50
Ontario	5	121.00
Peel	21	445.50
Perth	11	198.00
Peterborough	27	469.90
Prince Edward	13	293.00
Renfrew	9	175.00
Simcoe	10	195.00
Victoria	7	174.00
Wellington	5	110.00
	295	$5,643.62

In Northern Ontario all farmers purchasing an approved bull receive 30 per cent. of the purchase price together with the freight. The following table shows this work during the fiscal year ending October 31st, 1930:

TABLE SHOWING BULLS BY BREEDS

Breed	Number of Bulls Purchased	Total Purchase Price	Average Purchase Price	Freight
Aberdeen Angus	8	$935.00	$116.88	$152.95
Ayrshire	17	1,735.00	102.06	111.53
Guernsey	2	400.00	200.00	40.80
Hereford	15	1,645.00	109.67	26.65
Holstein	18	1,550.00	86.11	49.96
Jersey	4	370.00	92.50	48.00
Red Poll	7	600.00	85.71	21.15
Shorthorn	70	7,830.00	111.86	467.57
	141	$15,065.00	$106.84	$918.61

RESTRICTED AREAS

Work in testing cattle is under the direction of Dominion Health of Animals Branch but the Province of Ontario pays to the Dominion the transportation charges of the inspectors. These charges amounted to $15,693.80.

The following table summarizes the results up to the week of December 2nd, 1931:

County	Test	Herds	Total Cattle	Total Reactors	Per Cent. Reactors	Infected Premises	Compensation
Glengarry.....	2nd General	2,485	39,378	281	.7%	147	$10,593.00
Stormont.....	2nd General	2,067	34,083	260	.7%	135	9,228.00
Prescott......	2nd General	503	10,222	29	.3%	18	964.00
Dundas.......	Initial	1,239	22,513	3,668	16.3%	691	141,947.00
Russell.......	Initial	1,805	33,649	2,619	7.7%	587	87,068.00
Leeds........	Initial	277	6,437	458	7.1%	68	15,114.00
Grenville.....	Initial	321	4,966	474	9.5%	102	16,941.00
Manitoulin....	2nd General	1,224	17,765	41	.3%	28	1,546.00
Prince Edward	3rd General	322	4,019	45	1.1%	28	1,714.00

ONTARIO PROVINCIAL WINTER FAIR, GUELPH

SUMMARY OF ENTRIES AND GATE RECEIPTS, 1921 TO 1930

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Heavy Horses........	286	225	191	254	146	225	240	274	251	190
Light Horses........	50	51	35	32	43	194	252	336	380	307
Beef Cattle..........	367	387	317	305	280	257	312	226	304	193
Beef Carcasses.......	......	......	......	......	......	11	5	15	12	18
Dairy Cattle.........	101	99	87	38	88	40	26	44	58	......
Sheep...............	716	768	581	424	408	419	398	398	527	492
Sheep Carcasses......	121	179	112	81	96	100	99	81	102	123
Wool................	43	54	42	41	40	38	35	30	27	35
Swine...............	287	391	273	153	184	199	173	146	198	203
Swine Carcasses......	33	34	34	45	48	63	42	39	39	54
Seeds...............	282	295	308	372	334	262	211	220	290	332
Fowls...............	4,154	3,817	1,570	794	1,297	1,423	1,437	1,194	1,187	1,358
Turkeys and Water Fowl..............	441	372	458	359	456	383	408	415	391	415
Pigeons and Pet Stock	715	763	378	247	227	261	308	282	348	369
Dressed Poultry......	277	273	290	145	177	111	150	113	......	......
Gate Receipts.......	$6,202	$5,286	$2,826	$2,813	$2,081	$3,685	$4,944	$5,200	$3,591	$4,416

ASSISTANCE TO AUCTION SALES OF PURE-BRED LIVE STOCK

During the year ending October 31st, 1931, assistance has been given to fourteen local associations that have held auction sales of pedigreed cattle. A total of 453 head passed through these sales and the total financial assistance given by this Department amounted to $1,469. Of this amount $100 was given to four assocations that held shows of the cattle which were offered for sale and paid prize money on the awards. The following is a summary from the Order-in-Council under which assistance is given to these sales:

> "An allowance of $4.00 per head is made for tested cattle, providing all cattle at the sale have successfully passed the tuberculosis test and that an affidavit is taken by the contributors to the sale that their herds are free from contagious abortion and other infectious and contagious diseases. The maximum grant in such cases is $150. In sales where the cattle are not all tested for tuberculosis, but are free from abortion or other infectious diseases, the grant remains at $3.00 per head with a maximum of $100.00 for any one sale."

CO-OPERATIVE CAR SHIPMENTS OF LIVE STOCK

As a service to breeders of pure-bred stock in Ontario in enabling them to market their animals in Western Canada, the Live Stock Branch maintains a service known as our co-operative car shipments, whereby, when sufficient stock is sold to purchasers in Western Canada, this stock is assembled, shipped West, and distributed to the purchasers. This service is appreciated not only by our Ontario breeders but by western buyers.

STALLION ENROLMENT

During the season of 1931, there were 1,140 stallions enrolled; 178 carrying A1 Certificates; 288 Approved Form 1; 534 Passed Form 1, and 140 Defective Form 2 Certificates. Cash premiums under the Federal-Provincial Policy amounting to $11,910 were paid by the Ontario Department of Agriculture to the owners of 118 stallions on account of their season of 1930.

LOCAL POULTRY ASSOCIATIONS

Local poultry associations received assistance from the Department through the supplying of judges, lecturers and grants to associations during the fiscal year, November 1st, 1930, to October 31st, 1931:

Number of Associations holding a show during the fiscal year	26
Number of Poultry Judges supplied	26
Number of Lecturers supplied	9
Total amount of grants paid to Local Associations	$1,390.00
Total expenditures in connection with Judges, Lecturers, etc	1,048.15

ONTARIO FOAL CLUBS

During the summer of 1931 a policy for the formation of Foal Clubs was announced. The Ontario Live Stock Branch assisted by the District Representative organized twelve clubs. These clubs had a membership of at least ten boys and in some cases as many as sixteen. The boys were over 10 and under 18 years of age and in practically every case were very capable horsemen. Each club exhibited separately at their local fall fair and the best exhibitors were then invited to show at the Royal Winter Fair.

INSTITUTES BRANCH REPORT

While the educational programme of the Women's Institutes covers a wide field, there has been a growing interest in nutrition during the past year, due, in part to the economic conditions requiring farm homes to be more dependent upon home-grown products. Greater quantities of an ever-increasing variety of fruits and vegetables are grown on the farms and used throughout the growing season and specially prepared and stored for winter use. The leaders of the 1,200 branches are planning monthly programmes of educational value to country women, who are always seeking to become more efficient in housing, clothing and feeding problems.

While the Institutes are primarily an educational organization for grown-ups, they are contributing to a wholesome social life in the rural communities and their programme of service is a tribute to co-operative effort on the part of homemakers in the rural sections.

Health has been given a place in the forefront of Institute activities. Co-operation with Service Clubs and organizations active in advancing health education and service has formed a large part of Institute work. Health exhibits, competitions and contests, special health days and health clinics have been featured in many districts. Sanitary equipment, school supplies and systematic study of health literature has occupied a large number of members throughout the Province.

Home Economics still retain the primary place on the programmes of the branches. Ways and means of providing nutritious, well-balanced adequate meals for their households occupy a goodly portion of the homemaker's time and thought, still giving intelligent attention to the comfort, convenience and attractiveness of her home, and the proper clothing of the members of her family throughout the year. The family budget and general household administration is her concern, as is evidenced by the general interest in the demonstration and study courses in economics.

Education is the topic of the thinking people to-day, and every available means is being utilized by the members that they may become more efficient in the directions of their many and varied responsibilities. Well-balanced, carefully planned programmes—stressing social, cultural and physical development—are being carried out. Home tours, music, debates, dramatics are given a place in the homemaker's plan. There is a noticeable movement toward better literature.

The Institutes generally recognize the place of *Agriculture* on the programme for rural homemakers. A larger utilization of agricultural products; a higher standard of products, and a better system of marketing farm products; all have come under consideration in the work of the branches. Home beautification and increased interest in fall and school fairs are receiving consideration by rural women.

Legislation is being more intelligently reviewed, many groups making a systematic study of the "Handy Guide to the Laws of Ontario" by Mrs. W. R. Lang, to which supplements are issued from time to time as legislation of interest to women changes. Mrs. Lang also helps to solve many problems and answers innumerable questions through her personal correspondence with individual members of the branches.

Relief work has been an acceptable service rendered to the needy in practically every branch. Co-operation among the members and with Township Councils, Central Committees, School Teachers and Churches has made it possible to give aid without publicity to individuals and to families. Because of the quiet, practical method of carrying on in all Institute groups, much has and will be accomplished to relieve want and distress. Hospitals, institutional homes, Western Canada and Northern Ontario, special individual cases and families have received large contributions of personal and household supplies of clothing, foods and other necessities, as well as considerable financial aid where such was required.

In *Community Activities*, social and recreational interests are considered, each group studying their own community needs, whether in the care of neglected cemeteries, beautifying parks and memorial plots, erecting or remodelling community buildings, establishing rest rooms, civic improvement, Christmas cheer games, entertainments and so forth.

Historical Research—Keen interest is being taken in historical research. Histories, old documents, land marks, pioneer life and relics are receiving attention. Co-operation with the Provincial Archivist, Ontario Historical Society and county organizations is resulting in collections of valuable history of Canada, the establishment of county museums and the preservation of relics of pioneer life.

Canadian Industries—Interest in Canadian-made goods and Canadian-grown products has been aroused and developed. The women of the Institutes are giving considerable thought to the goods which are displayed for their needs, comforts or pleasures, realizing that Canadian manufacturers are willing to co-operate with Canadian homemakers in providing the most desirable quality of goods at a reasonable price. Our women are realizing that most of the needs of the family, in the matter of food, clothing and housing, can be adequately met by the home industries and are asking for Canadian goods for Canadian Homes. As investors of a large part of the national funds, the women are endeavouring to direct this expenditure in such a direction as will keep Canadian industry running smoothly and at the same time supply the homemaker's needs with goods of the best quality with reasonable expenditures.

DEMONSTRATION LECTURE COURSES

There is a growing appreciation of the two weeks' and three days' courses in Nutrition, Home Nursing and First Aid, and Sewing. The women and girls in most of our rural homes have no other substitute for the domestic science instruction available in the larger centres except the classes for which the Institutes branch provides instructors. Many of the large number of members who cannot take the time to attend regular classes are making excellent uses of the literature bearing upon nutrition, sewing, nursing and health

SUMMER SERIES OF MEETINGS

Keen appreciation is shown by the members generally of the annual visit of a representative of the Department during the summer series of meetings, when information to women on ways and means of making the programme of the local branch more effective are discussed. Seven hundred and fifty centres were visited during the past summer; two or three branches co-operating in holding a joint meeting in a number of districts.

DISTRICT ANNUALS

In each of the 100 districts in the Province, representatives from the branches concerned meet to present reports of the activities for the past year, to elect officers and to consider ways and means of extending the work and making the general work and educational programme more effective. The Department and the Provincial Federation co-operate in providing special speakers for the occasion, when outstanding features of work as observed throughout the Province are placed before the members in the hope of stimulating a keener and more intelligent interest in worth-while activities. At these gatherings representatives are appointed to attend conventions with authority to elect members to the Provincial Board.

ANNUAL CONVENTIONS

Conventions were held in twelve centres during the fall months, at five points in the northern sections of the Province and seven centres in Old Ontario. At all these gatherings the reports presented showed an intelligent interest in the comprehensive programme outlined by the Provincial leaders. While no branch can hope to cover all the study courses offered a very keen interest is taken in planning definite programmes for the local branches as well as the district organizations.

While the rural sections have suffered materially from the economic depression, the delegates at the conventions showed a very optimistic spirit, and are giving a very close study to methods of adequately providing for the family needs at a minimum of cost.

JUNIOR INSTITUTES

There are ninety Junior Institutes with a membership of approximately 2,000. The Junior Institutes are organized in a similar manner to the Senior Institutes, but feature programmes of special interest to girls and which tend to develop those qualities of character that enable them to meet the responsibilities of citizenship with greater courage and success.

JUDGING COMPETITIONS

Fifty-two counties and districts took advantage of coaching classes provided through the Institutes Branch during the past year. The County Agricultural Representative, co-operating with local Institute Branches, arranged for groups of girls and women to meet with an instructor to study nutrition, house furnishing and clothing. At the conclusion of the classes, a county competition was held at a central place in the county where the girls applied the information received in coaching classes in judging menus for pre-school children, school lunches, farm living-rooms, kitchen plans and country girls' wardrobes. Over 4,000 girls and women attended coaching classes and approximately 2,000 entered competitions during the year.

Competitions girls were required to carry on a project in order that they might be eligible for the Royal party. Further study in nutrition, house furnishing, clothing, home beautification or garden, and canning was necessary in order that contestant might carry out a project in one of the above mentioned and submit food charts with family menus and school lunches, a kitchen plan, a smock, plans of home grounds or an exhibit of canned vegetables to the satisfaction of the coach and District Representative.

GARMENT-MAKING CLUB

The Garment-making Club is an organization through which girls may learn the elementary steps in sewing as outlined in the Girls' Garment-making Club Manual.

County Conferences and Achievement Days were held in seven counties and afforded the girls an excellent opportunity to exhibit projects and articles made as a result of the short courses. Addresses of interest, demonstrations and entertainment were provided.

CANNING DEMONSTRATIONS

Canning demonstrations were given in twenty-five counties to over 600 members of Garden and Canning Clubs.

More vegetables were canned according to approved methods and a higher standard of exhibit was reported from all clubs.

THE ROYAL PARTY

For the second time five girls from each of fifty-two counties and districts were brought to the Royal Winter Fair as guests of the Department of Agriculture in recognition of their ability as shown in judging competitions and project work. All these girls were from 16 to 26 years of age and live on the farm.

FRUIT BRANCH

With continued depression in the prices of all farm products including fruits and with splendid crops in practically all kinds of fruits during the present season, every effort has been made to assist in the marketing. Fortunately the quality in all lines was above the average, the season being very favourable for ripening such fruits as peaches and grapes. The open fall enabled the growers to harvest to good advantage the very heavy apple crop, although the extreme heat has prematurely ripened the winter varieties that were not cold stored. Prices have been very low in many lines, but, on the other hand, the fruit grower has at least been able to secure his costs of production which will enable him to carry on until business conditions improve.

Organization in some form is very necessary to the successful marketing of our fruit products. In past years great difficulty has been experienced, not in finding buyers but in securing for buyers the quantities, grades and varieties they require. The experience last year of attempting to fill orders for winter apples of a certain variety revealed the serious lack in the Province of any concerted action among either local buyers or growers to properly handle their fruit. Acting on information received from what were considered reliable sources, offers were accepted for large blocks of apples at good prices, the contracts being that these would go forward under a uniform grade and in car loads of one brand. Not only did shippers fall down very badly in both grades and quantities, but outside of the few packing houses already established, grading and branding were uniformly disappointing.

It is indeed a pleasure to be able to picture the improvement in the Ontario apple pack the present season as a result of the organization efforts made by the growers, aided by the Department, during the past summer. Norfolk County deserves credit for leading the way through the erection and operation of their combined cold storage and packing house during 1930. With a heavy crop in prospect, plans were made and completed for a duplication of their cold storage plant to cover 50,000 barrels, and an enlarged packing house, so that while not quite large enough to handle the heavy crop of 1931, ample room will be available for a normal crop until further orchards come into full bearing. Four large grading machines are available for packing.

Prince Edward County has been specially handicapped through lack of even common storage facilities. When shown the advantage that had accrued to Norfolk County through their organization, the growers of Prince Edward were soon active in planning for similar facilities. The cold storage and packing erected is a model plant with accommodation in the refrigeration chambers of 25,000 barrels and packing facilities to handle 75,000 barrels during the season. Two large graders and polishers handle several carloads per day.

Thornbury, Strathroy and Trenton in turn decided to take advantage of the assistance given by the Federal and Provincial Governments and can now boast of modern packing houses completely equipped with grading machinery, and cold storage for both precooling of early fruit and cold storage of winter varieties.

Many districts were not ready to incur the financial obligations required to build such plants as already described yet felt that central packing was urgently needed. To these points assistance was given in organization and equipment, the growers agreeing to secure suitable buildings for the purpose. Help was furnished at Newcastle in enlarging the packing house and at St. Thomas, Forest, Woodstock, Port Hope and Brighton in equipping their buildings with suitable grading machines and polishers.

The apple growers of the Niagara district combined to use the facilities of the cold storage plant at Grimsby, the same practice being followed at Brighton where the Government cold storage plant was available.

In addition to the above plants, private capital erected a modern cold storage near Pickering, and dry storages and packing houses near Newmarket and Sparta where large orchards are located. Taking into account the older packing houses and frostproof storages, the Province is now much better equipped for handling the increasing apple crops. Further cold storages are needed in Southwestern Ontario and packing houses in Huron, Kent, Wentworth, Halton and Peel to take care of the surplus apples that should be exported to relieve the domestic markets.

With practically no demand in the early season in Canada for apples, shippers were compelled to clear up all common storage stocks by exporting. The presence of our representative in Great Britain certainly saved us from what would have been a disaster. Prices were indeed low and the unfavourable exchange worked greater hardships, but at least some returns were secured for all of the early varieties, and fair profits on the direct sales which have been steadily increasing each year. If this season's shipments had been sent forward under the same terms as applied four or five years ago, with no person available in the markets overseas to look after the growers' interests, this year would indeed have been most disappointing.

The action of the British Government in prohibiting the importation from the U.S.A. of barrelled apples other than the No. 1 grade until November 15th, caused the Federal Government to call a conference at Ottawa of the officials of the Eastern Provinces interested in the control of the apple maggot, the direct cause of this embargo. As a result of the meeting, Ontario agreed to make a survey of all the counties interested in the export business to find out how serious infestations were and to provide the Federal Fruit Inspectors and the packing houses with information that would enable them to guard against the shipment of any fruit likely to contain the larvae of this insect. Here again valuable help was rendered by the spray supervisors who returned to their respective districts and worked with the Entomologists of the Federal and Provincial Departments in locating the orchards and determining the extent of the infestation. As a result of this survey, to date no reports have been received from Great Britain showing shipment of apples containing the apple maggot.

REPORT OF THE PROVINCIAL ENTOMOLOGIST

Administration of the Fruit Pests Act

The work of inspecting nurseries was carried out as usual. Forty-six nurseries, containing 1,075,416 fruit trees, 757,973 shrubs and 579,071 ornamentals have been inspected during the past season with only 1,219 destroyed due to infestation with insects or fungus diseases. One of the largest nurseries shows only one plant rejected out of 483,930.

The inspection of orchards for black knot was continued and the outbreak of this disease, which reached its height in 1929 in the Niagara Peninsula, has been brought under control.

The years 1930 and 1931 owing to their dryness and heat have been very favourable to the "San José" scale. The result is that many orchards, which were free from the pest, are once more becoming heavily infested. Next spring more attention will have to be given to see that these orchards are properly sprayed.

Inspection for peach yellows and little peach was carried on as heretofore. In most of the peach belt the yellows and little peach situation is about the same as it has been for a good many years, but in the township of North Grimsby there has been a marked increase in the number of trees affected with yellows. As this disease does not show up until at least a year after the trees have been inoculated, they must nearly all have contracted the disease in 1930 or 1929. Why this should be so in only one township is at present inexplicable, especially as the local inspector is a competent and efficient man. The total number of trees marked in North Grimsby this year was 1,783, which is several times the normal number. On learning of the outbreak, an examination was made of the situation and instructions given to the Provincial Fruit Pest Inspector and the municipal inspector to make a thorough clean-up of all infested trees.

The Spray Service

Successful marketing of fruit depends very largely on a quality product. Our source of supply is the orchard and carelessness there particularly in the spraying, voids any further efforts on the part of all agencies concerned in the marketing. Special stress therefore has again been laid by the Department on the spray service, details of which are given in the report of the Provincial Entomologist and the Professor of Plant Pathology at the Agricultural College, who were jointly in charge of the field operations. Supervisors were again appointed to cover every county where commercial orcharding is practiced. The majority of the men were, later in the season, employed as supervisors in the packing houses or as inspectors under the Federal Fruit Branch. The experience that these men gain through seeing the fruit at packing time from the various orchards is invaluable to them when they return in the spring again to look after the spraying.

Horticultural Experiment Station

The activities of the Station are discussed under the three main headings, Research and Experimentation, Plant Breeding, and Extension.

Research and experimentation activities included identification of cherry stocks, and other nursery investigations, vegetable variety tests with onions and tomatoes (field and hothouse), vegetable seed production and plant pathology.

Plant breeding work included research on different types of grape seedlings which have shown considerable possibilities as commercial varieties. Similar work was also done with tomatoes, peppers, rhubarb, sweet corn and cucumbers.

Extension work was actively forwarded during the year. Budding, bridge-grafting, and prunning demonstrations were given where requested and in addition to the spray service visits some 175 extension visits were made throughout the year. Orchard problems such as fertilization, cultivation, cover crops, green-manuring crops, winter-killing, and suggestions to beginners were among the points discussed when these visits were made.

DAIRY BRANCH

The season of 1931 will be remembered by cheesemakers as an exceedingly difficult one to make cheese. The creamery men will remember it as one of larger production of butter but smaller profits, and the patrons as a year of exceedingly low prices. The summer months were extremely hot and dry, and scarcity of water for stock, as well as for cooling milk and cream, made it difficult to produce sweet, clean-flavoured milk and cream, the result being a lowering of the quality of both cheese and butter. The percentage of first-grade cheese dropped from 96.46 per cent. in 1930 to 95.13 in 1931, and first-grade butter dropped over 7 per cent. The production of cheese may be slightly under 1930, but we estimate there will be an increase of over 10,000,000 pounds of creamery butter over 1930.

INSTRUCTION AT CHEESE FACTORIES

As in 1930, thirty-four instructors were employed.

NUMBER OF FACTORIES	1931	1930
Northern Ontario	10	14
Eastern Ontario	632	643
Western Ontario	77	78
	719	735

NUMBER OF PATRONS	1931	1930
Northern Ontario	177	293
Eastern Ontario	20,505	21,147
Western Ontario	4,826	4,808
	25,508	26,248

POUNDS CHEESE MANUFACTURED	1931	1930
Northern Ontario, May 1st to October 31st	417,768	584,426
Eastern Ontario, May 1st to October 31st	60,835,839	63,606,219
Western Ontario, January 1st to October 31st	14,570,322	13,896,351
	75,823,929	78,086,996

VALUE OF THE CHEESE, WHEY BUTTER AND WHEY CREAM:	1931	1930
Northern Ontario	$46,539	$85,392
Eastern Ontario	7,023,857	9,432,179
Western Ontario	1,776,216	2,287,545
	$8,846,612	$11,805,116

Number of boxes and percentage of first and special-grade cheese by provinces, as shown in the Federal Graders' Report for 1931:

	Number of Boxes	Special and First Grade
		Per Cent.
Ontario	865,336	95.13
Quebec	280,794	89.41
Prince Edward	5,287	92.06
New Brunswick	286	76.22
Manitoba	1,436	91.36
Totals	1,153,139	444.18

Number of boxes and percentage of first and special grade cheese in Ontario as shown by the Federal Graders' Report for 1931:

	Number of Boxes	Special and First Grade
		Per Cent.
Northern Ontario	4,215	91.06
Eastern Ontario	674,499	94.09
Western Ontario	186,622	98.08
Totals	865,336	95.13

Number of boxes and percentage of first and special grade cheese in the different counties in Ontario as shown by the Federal Graders' Report for 1931:

	Number of Boxes	Special and First Grade
		Per Cent.
Addington	15,397	95.0
Brant	513	100.0
Bruce	1,561	97.8
Carleton	39,093	95.5
Dundas	49,150	92.1
Elgin	12,142	97.2
Frontenac	67,765	94.4
Glengarry	46.586	95.6
Grenville	26,235	91.8
Hastings	62,569	98.0
Huron	2.679	86.7
Lanark	24,674	96.6
Leeds	86,965	92.3
Lennox	25,238	93.4
Middlesex	46,298	98.8
Nipissing	3,363	90.9
Northumberland	24,917	95.4
Oxford	79,454	98.1
Perth	35,572	98.4
Peterborough	10,471	94.8
Prescott	69,872	94.1
Prince Edward	26,312	97.7
Renfrew	4,550	94.8
Russell	47,233	94.3
Stormont	46.287	92.4
Sudbury	852	91.8
Victoria	1,235	99.0
Waterloo	8,403	98.2
Total	865,336	95.13

INSTRUCTION AT CREAMERIES

Eleven instructors and three assistant instructors were employed.

Location of Creameries	1931	1930
Toronto and west	163	155
East of Toronto	98	86
Northern Ontario	29	31
	290	272

Creamery Patrons	1931	1930
Northern Ontario	5,310	4,224
Southern Ontario	82,030	73,829
	87,340	78,053

Quality of cream graded by instructors:

	Special	First	Second	Off
1931	2.20%	81.10%	16.56%	0.14%
1930	2.31%	81.50%	16.10%	0.02%

Quality of the butter graded at the Butter Grading Station:

	Special	First	Second	Off
1931	.22%	68.66%	30.66%	0.46%
1930	.45%	76.37%	22.81%	0.37%

EASTERN DAIRY SCHOOL, KINGSTON

1931

The annual course for the training of cheese and buttermakers was held as usual from January 5th to March 18th. Thirty-eight students registered—thirty-five qualified for certificates, three failed to qualify.

A special course for experienced cheesemakers was held for a week in March with an attendance of 83.

The cheese instructors in Eastern Ontario held a two-day conference at the school in March.

Manufacturing statement for the year ending October 31st, 1931:

Butter manufactured	197,235 lbs.
Butter per 100 lbs. fat	123.9 lbs.
Average selling price of butter	25.05 cts.
Average price paid patrons per lb. fat	24.98 cts.
Cheese manufactured	74,127 lbs.
Average fat in the milk	3.35%
Average milk per lb. cheese	11.57 lbs.
Average cheese per lb. fat	2.66 lbs.
Average price paid patrons per lb. fat	25.87 cts.

AGRICULTURAL REPRESENTATIVE BRANCH

The programme of Agricultural Extension Work, as carried on by the Agricultural Representatives of the Ontario Department of Agriculture, for the year 1930-1931, has been varied. Due to the unsettled economic conditions, farmers have found themselves in a peculiar situation and many have been forced to give considerably more thought to their business than ever before, with the result that more problems have been presented to the county offices than in previous years.

The disquieting feature of farm operations during the past season has been the very low prices obtainable for all farm produce. Farmers have had to curtail operations and be very careful regarding purchases. The sudden decline in prices caught many unprepared and previous commitments had to be met, with the result that many farmers have found difficulty in meeting their obligations.

Seeding conditions last spring were excellent and, followed by a good season, produced yields in practically every line well up to the average. Prices, however, have not been too satisfactory and markets, in a good many cases, were difficult to find. Taking agriculture as a whole, Ontario farmers face the future with confidence.

JUNIOR DEVELOPMENT

In planning an agricultural extension programme, those responsible must not only think of the present but also of the future. Consideration must, therefore, be given to the opportunities and possibilities presented through the medium of young people. In Ontario it is from this phase of work that extension workers expect to accomplish most. True, results cannot be measured immediately, but sufficient have been noted to indicate the possibilities and the wisdom of extending it more widely throughout rural Ontario. The junior programme carried on in 1931 will be dealt with under the following headings: 1. Rural School Fairs. 2. Boys' and Girls' Club Work. 3. Short Courses in Agriculture and Home Economics. 4. Junior Farmer and Junior Institute Work.

Rural School Fairs

Rural School Fairs were carried on in 1931 in every county and district in the Province. Their objective is to create greater interest in agriculture and home life amongst the boys and girls enrolled in the rural schools of the Province. Every boy and girl enrolled in rural schools participating in school fair work has the opportunity of securing, free of charge, high quality seeds of either vegetables, roots or cereals. These are sown on the home farm. At the fairs, held in the fall, classes are not only provided for the products grown from the seed distributed by the Ontario Department of Agriculture, but also for fruit, potatoes, nature study collections, cooking, sewing and farm mechanics. The day's programme includes, in addition to the judging and discussion of the exhibits, such educational features as competitions in stock and poultry judging, domestic science judging, fruit and vegetable judging, Strathcona exercises, inter-school choruses, public speaking and recitations. Notwithstanding the fact that it is 22 years since their inception, school fairs continue to grow and maintain the interest of both the children and parents of rural Ontario. The following statistics give comparative information for the years 1930 and 1931:

	1930	1931
Number of School Fairs Held	565	576
Number Schools Taking Part	4,747	4,852
Number Children Taking Part	122,606	129,616
Number Entries at the Fairs	343,396	387,265
Number Adults Attending Fairs	193,700	214,110
Total Attendance	346,708	372,768

BOYS' AND GIRLS' CLUB WORK

Perhaps the most important phase of Junior Extension Work is that devoted to teen-age boys and girls. With this in mind, joint policies for Boys' Calf and Swine Clubs were arranged for with the Federal Department of Agriculture early in the year. Policies governing Boys' Grain Clubs, Boys' Potato Clubs, Boys' Poultry Clubs, Boys' Garden Clubs, Girls' Garden and Canning Clubs and Girls' Poultry Clubs were also issued early in 1931. In all cases, the policies were arranged for a definite project to cover the season, year or more, as the case may be. The year's results have been most gratifying. Judging by the response to the first year's efforts, the growth of the movement will be governed, not by the interest or lack of interest amongst the residents of rural Ontario, but by the amount of time which it will be possible for the Agricultural Representatives and their assistants to devote to this phase of extension work. The statistics which follow indicate the type of projects and the number participating in each in 1931:

Project	Number of Clubs	Number of Competitors
Boys Calf Clubs	10	153
Boys' and Girls Heifer Clubs	11	129
Boys' Foal Clubs	12	163
Boys' Potato Clubs	28	924
Boys' Grain Clubs	15	278
Boys' Swine Clubs	9	134
Boys' Sheep Clubs	32	541
Boys' Garden Clubs	37	1,095
Girls' Garden and Canning Clubs	62	1,250
Boys' Farm Accounting Competition	11	172
Poultry Clubs	2	49
Girls' Garment Making Club	1	25
Boys' Turnip Club	1	18
Boys' Corn Clubs	2	326
Boys' Soy Bean Club	1	19
Total	234	5,276

NATIONAL CLUB COMPETITIONS

Ontario made a creditable showing in competitions and classes arranged by the Canadian Council on Boys' and Girls' Club Work at the Royal Winter Fair. In the three projects in which teams were entered for the inter-provincial contests, Ontario teams stood as follows:

Swine (Lennox and Addington Swine Club Team)	First
Cattle (Peel County Calf Club Team)	Second
Potatoes (Middlesex County Potato Club Team)	First

ROYAL "500 PARTY"

Pursuant to the policy initiated in 1927, 479 young men between the ages of 16 and 20 years were brought to Toronto at the time of the Royal Winter Fair, as guests of the Ontario Government. Seventy-one members of the party were winners of club projects conducted in their respective counties or districts and as such were awarded free trips. The balance of the party was selected by means of special judging competitions and examinations conducted in their home districts or counties. In all, fifty-one such local competitions were held with a total of 1,583 eligible contestants. While the Royal Winter Fair was the chief feature of their four-day programme, industrial organizations also co-operated by inviting the party to visit their plants.

In order to encourage close observation on the part of all members of the party, they were encouraged to submit an essay dealing with the most important features of their trip. Ten championship prizes of a two weeks' short course at the Ontario Agricultural College or the Kemptville Agricultural School were awarded to the writers of the ten outstanding essays.

SHORT COURSES

In accordance with the policy instituted in 1912, short courses of varying length were held in practically every county and district of the Province in 1931. These courses are primarily for young people between the ages of 16 and 30, however, adults are at all times encouraged to attend, in particular, special lectures on subjects of the greatest interest. Two courses are usually held at the one centre, one in agriculture for the boys and the other in home economics for the girls. All courses are organized by the Agricultural Representative in co-operation with the local people. Such courses may, in the main, be subdivided into three main groups, viz.: 1. One-month Courses. 2. Three-month Courses. 3. Special Courses.

ONE-MONTH COURSES

In 1931, twenty-eight such courses in agriculture were held in Southern Ontario. The total enrolment was 1,049 or an average of 37 boys per course and an average daily attendance per course of 29. With the exception of a few special speakers, the course of lectures and demonstrations is handled by the local Agricultural Representative and his assistant. While the Agricultural Representatives organize and supervise the Home Economics Courses, the course of study is given by lecturers from the Institutes Branch.

THREE-MONTH COURSE

Three-month courses in agriculture and home economics were held in eight counties in 1931. The total enrolment in agriculture for the eight courses was 336, with an average of 42 per course and an average daily attendance of 26. The eight home economics courses had an enrolment of 265, or an average of 33 per course and an average daily attendance of 21. Both types of courses are under the direction of the local Agricultural Representative, who is assisted by itinerant lecturers, while specialists from the Institutes Branch handle the course of study for the girls' courses.

SPECIAL COURSES

In Northern Ontario, Agricultural Representatives conducted eleven courses in agriculture. These varied in length from two or three days to three weeks. The total enrolment for these eleven courses was 464 or an average of 42 per course.

JUNIOR FARMER ASSOCIATIONS

These organizations are an outgrowth of agricultural short courses. They first came into being in 1914 with the idea of holding the members of the short-course class together so that they could continue their study of the agricultural and social needs of their community. There are, at the present time, 156 branch organizations, with a total membership of 4,875. Monthly meetings are held by most of these organizations, the greater percentage of which carry on definite programmes of educational and social value. In twelve counties, county organizations have been formed with the idea of giving leadership and fostering inter-group or association contests in public speaking, debating, dramatics, music, field days and judging competitions. The year 1931 marks the close of the most successful year from the standpoint of programme and projects in the history of the organization.

LEADER CONFERENCES

In practically every county in the Province there are many members of Junior Farmer Associations who are giving active leadership to some project in their community. With the idea of developing this situation still further, two two-day leader conferences were held early in the fiscal year. They were keenly appreciated by those present. The attendance was as follows:

December 22nd and 23rd—Kemptville Agricultural School	63
December 29th and 30th—Ontario Agricultural College	111

JUDGING COMPETITIONS

While a good judge of live stock and field crops is not necessarily a successful live stock man or farmer, on the other hand, to be a successful live stock man one must be a good judge of live stock and incidentally to be a successful grower of field crops one must understand what constitutes quality and purity in the respective crops. With this in mind, junior farmers are encouraged to participate in such competitions in their local counties. As an added incentive, inter-county and district competitions are conducted at the various summer and winter exhibitions under the direction of the Agricultural Representative Branch.

Durham County, in competition with thirty-three other county teams of Junior Farmers, won the Jeffrey Bull Memorial Trophy, emblematic of the live stock judging championship at the 1931 Royal Winter Fair.

Inter-county judging competitions in live stock and seeds were also conducted at both the Ottawa and Guelph Winter Fairs. At Ottawa, with fourteen counties competing, the Peter White Live Stock Trophy was won by the Prince Edward County team, while Renfrew County, for the third time, won the A. H. Acres Seed Trophy.

Twenty-six counties competed at Guelph, with the Peel team winning the live stock honours, and the Durham County team the seeds championship.

In all cases, the county teams were coached by their respective Agricultural Representatives.

In co-operation with the directorate of the Canadian National Exhibition, Central Canada Exhibition, Western Fair, and Peterborough Industrial Exhibition, individual competitions in the judging of live stock, poultry, grain, roots and small seeds were conducted at all four centres. At the four exhibitions in all classes there was a total of 1,317 junior farmer competitors.

Home Plowing Competition

Junior Farmers are encouraged to participate in home plowing competitions which are organized by the Agricultural Representatives in their respective counties. In all, twenty-one competitions of this nature were conducted in 1931. The Ontario Department of Agriculture contributed to their prize list to the extent of $440.00.

Junior Farmer Club Projects

Junior Farmers between the ages of 20 and 26 are also encouraged to take part in similar club projects to those which were discussed in detail under Boys' and Girls' Club Work. Championship prizes of two weeks' short courses at the Ontario Agricultural College or Kemptville Agricultural School are awarded the winners. Altogether, fifty-nine young men and women attended such courses in 1931 as a result of this phase of extension work.

Live Stock Improvement

In co-operation with the Dominion Department of Agriculture, the Ontario Live Stock Branch, the Ontario Dairy Branch and the Ontario Agricultural College, live stock improvement work has been carried on with all lines of live stock and a very expansive programme has been followed.

Horses

The Agricultural Representatives, as in the past, accompanied the Stallion Inspectors on their annual tours of inspection. This method of procedure has a dual benefit. First, it allows the Agricultural Representative the opportunity of reviewing the horse situation of his county with regard to the type of sire being used, and second, the Stallion Inspector benefits by having someone who is familiar with the county to direct his itinerary.

The marketing of horses has been carried on to a very limited extent. The situation has been an import rather than an export one. However, the horse seems to be coming into its own again as many farmers with tractors are finding it more profitable to use horses because of the adverse ratio between the price of a gallon of gasoline and a bushel of oats.

Cattle

The extension work carried on in connection with cattle embraces both production and health. In practically all counties the Agricultural Representatives stress the replacement of inferior sires with well-bred, good-type animals. In the dairy counties, cow-testing work is featured and it is with a large degree of satisfaction that we can report that more cows were under test in 1931 than in 1930. From a health standpoint, the Agricultural Representatives have assisted the Dominion Department of Agriculture in furthering the establishment of restricted T.B. free areas and in disseminating information regarding the prevention of infectious abortion.

Cattle prices have been low, which has resulted in a very considerable export trade of dairy cattle to the United States.

The following extract from the Peterborough County report is of interest:

> "Unsatisfactory prices during the past year have done much to improve the quality of cattle being kept in the county. Because of the low price of milk, large numbers of poor dairy cattle have been shipped to the market. Because of the abundance of cheap feed, almost all cattle in the county have been kept in better condition during the past year."

Live Stock Improvement Associations, in a number of counties, continue to co-operate with the Ontario Live Stock Branch. Two additional counties, Brant and Middlesex, have been declared Better Bull Areas and bonuses on the purchase of pure-bred sires are being paid in all counties where Live Stock Improvement Associations are functioning. The Agricultural Representatives play an active part in furthering this work.

The balancing of feeding rations for beef cattle, dairy cattle and swine has been the subject of many addresses delivered by the Agricultural Representatives with the idea of encouraging the utilization of home-grown grains and fodders.

Cow Testing

In keeping with Ontario's "Cut the Cost of Production" programme, the testing of dairy herds for milk and butter fat production received renewed impetus and many counties have increased the number of cows under test. This criterion of a cow's worth reveals many profiteers in the dairy industry and shows the way to lower production costs. Many breeders have come to realize that it is possible to have considerable variation in the test from month to month and have been fairer in their criticisms of commercial firms purchasing milk and cream by test.

Sheep

Ontario's sheep population continued to increase and, with its expansion, went, hand in hand, a demand for information regarding the prevention of losses due to internal and external parasites. The Agricultural Representatives, in co-operation with the Provincial Zoologist, have held many demonstrations and outlined preventive methods to control the losses, caused by parasites, to the sheep industry.

Marketing problems also received a portion of the Representatives' time. Many docking and castrating demonstrations were conducted. In co-operation with the Dominion and Ontario Live Stock Branches, the placing of many pure-bred rams was brought about, which eventually will play a big part in developing in Ontario a uniform type of market lamb. Lamb fairs, as conducted in many counties, help to establish in the minds of the breeders an ideal animal of proper type.

Swine

The satisfactory prices prevailing for bacon and pork during the latter months of 1930 had the expected result of increasing the number of hogs being raised in Ontario. Unfortunately, however, these prices were not maintained and, during the latter months of 1931, many hogs were sold at cost or less.

Swine husbandry, including sanitation and parasitic control, was discussed by the Agricultural Representatives at many meetings and a number of demonstrations were given. Depots for the distribution of worm powder were also arranged for in many counties.

Realizing the fact that poor-type boars and sows were responsible for the low percentage of select hogs coming from many sections, the Representatives co-operated with the Dominion and Ontario Live Stock Branches in the distribution of high-class breeding stock. Bacon Hog Fairs and special courses in swine raising were continued, similar to those held in previous years.

Poultry

For many years, young men have been trained by the Agricultural Representatives in the efficient culling of poultry, with the result that many of the farm flocks are now culled by these experienced cullers. Every county now has a sufficient number of these men to look after the culling needs of their farmers.

Losses from parasites are heavy and a continued effort is being made to educate poultry raisers to practise hygienic methods in their hatcheries, brooders and poultry houses. A detailed survey has been made in at least one county in co-operation with the Ontario Veterinary College to determine the extent and seriousness of the parasitic contamination. Agricultural Representatives continue to assist in the securing of suitable poultry flocks to be enrolled as Ontario Poultry Breeding Stations.

Soil and Crop Improvement

The programme of extension work regarding soil and crop improvement for 1931 was founded on educational principles to aid the farmer by showing the way to cut production costs. Such a programme embraced a tour of a Soils and Crops Train through Southwestern Ontario; barn, hall and field meetings; establishment of seed-cleaning plants and demonstrations on the proper adjustment of fanning mills; the treatment of grain for smut and the testing of soils for acidity. Besides the above, numerous fertilizer experiments were conducted throughout the Province and Seed Drill Surveys were made in the following counties: Durham, Frontenac, Grey, Halton, Lanark, Prince Edward and Wentworth.

In response to this educational appeal, an increase is noted in the percentage of registered seed grain sown, in the amount of grain being cleaned in cleaning plants and the more intelligent use being made of commercial fertilizers. In Waterloo County alone two seed-cleaning plants have been established and 240 farmers purchased screen material to repair their fanning mills.

Reforestration

Low prices for farm products have forced the owners of marginal land to consider the reverting of this land to wood and lumber production with the result that an increase in tree planting has been made, not only by land owners but also by municipalities, especially in light-soil areas where sand-drifting was becoming a menace. The Agricultural Representatives lent their assistance in establishing many wood lots.

Farm Labour

A complete reversal of conditions concerning farm labour has developed this past year. During the past, the Agricultural Representatives' duty was to secure help for the farmer, but this year, the problem has been to secure sufficient contracts to employ those registering for work. Many farm boys who previously had been employed in industry were available and this type of farm labour was welcomed by the farmer.

Marketing

The marketing problem to the average farmer is one of profound concern and Agricultural Representatives throughout Ontario have endeavoured to improve conditions by co-operating with the Ontario Marketing Board in making a census of surplus products for sale in each county and also reporting the approximate amounts of products required.

Weeds

Ontario farmers are becoming weed conscious with a two-fold result: Weeds on road sides and fence lines are being cut and crop rotations and cultivation methods are being adopted in an effort to control this enormous drain on Ontario's resources.

Fertilizer Experiments

In co-operation with the Chemistry Department of the Ontario Agricultural College, the Representatives have assisted in locating farms typical of the district on which to conduct fertilizer experiments on growing crops. From the information secured, it is hoped to determine the plant-food requirements most beneficial to the different crops and soils.

Agricultural Engineering

Activities under agricultural engineering this past year were directed largely towards multiple hitch demonstrations. The price of gasoline in comparison with the price of feed resulted in many farmers enquiring for information regarding equipment for larger hitches and, in co-operation with the Animal Husbandry Department of the O.A.C., four, five and six-horse hitch demonstrations were made in a number of counties.

TOBACCO

Almost overnight tobacco growing has become of great importance to the Norfolk district. Investments in land, buildings and equipment are already around five million dollars. There are now in the county about 4,000 kilns and 600 good greenhouses. Better greenhouses are constantly being built and are being used as well for growing tomatoes and lettuce, etc., during the off season.

The average yield this year will be between 900 and 1,000 pounds per acre and the average price about 18 or 20c. per pound which will bring a revenue into this district of approximately four million dollars.

Adequate marketing facilities for handling this constantly growing crop are not as efficient as they should be in order to return growers a fair profit for their tobacco.

More grading and packing plants will also have to be established where growers can have their tobacco graded and stored. In this way tobacco properly graded and cured would be available to buyers for inspection at all times and trade should thus be stimulated.

Special care will have to be exercised from now on to see that the standard of sharegrowers and owners be kept as high as possible. Observations made in other tobacco-growing districts show that the type or class of farmer has a bearing on the price paid for his crop. There is evidence to prove that buying companies figure if growers are of a low type they will be satisfied with a lower standard of living and therefore are willing to accept a lower price for their crop.

With largely increased plantings taking place in the tobacco districts there is a real danger at the present time of these areas becoming a field for the exploitation of an undesirable type of citizen unless care is made in selecting the best men obtainable.

CROPS, CO-OPERATIONS AND MARKETS BRANCH

MARKETING

In the opinion of many, the marketing of agricultural products constitutes our greatest problem in Canada to-day. Ontario is not excepted, for while we produce in great variety and have a heavy home consumption, modern transportation and switching from one product to another tends to equalization in all parts of the Dominion. It was to be expected, therefore, that greater demands would be made on Government marketing services. Our programme consequently has been expanded during the year.

In December a statistician was added to the staff, and in February a Feed and Fertilizer Specialist was appointed. The establishment of the Ontario Marketing Board in April has resulted in greatly increased marketing activity. As the Director of this Branch is Secretary of the Board, duplication is avoided. In fact, the Board directs the policy and plans the programme of the Branch.

Consumer Programme

The consumer programme inaugurated last year has been continued and broadened. Radio broadcasting was commenced on September 8th, 1930, and has been continued daily since. The chief purpose of this service is to keep Ontario farm products continuously before urban consumers. Suggestions are offered on the most satisfactory methods of purchasing farm products in order to secure quality and value. Market reports are included which give the range of prices for a variety of products and supply available. Prospective purchasers are advised when to expect supplies of new crops and also when the marketing peak may be reached.

A close check has been made on the number reached by this service and also to the extent it is appreciated. It has been found that thousands tune in for this daily talk and the audience is not confined to urban dwellers but includes farmers also. There is a secondary educational purpose served which we feel will be far-reaching. By listening to our talks to consumers, farmers get up-to-date information on markets and also learn the type of product and package which consumers may be expected to demand.

Consumer displays were exhibited at the C.N.E., the Western Fair at London, the Royal Winter Fair and at some smaller points. The purpose of these exhibits was to educate the Ontario public on the wide range and high quality of our farm products and to suggest how they should be purchased with greatest satisfaction. In connecton with the Royal Winter Fair, a contest was staged on Children's Day open to all public and separate school pupils in the Province. One hundred and twenty-five prizes were given and nearly forty thousand competition forms were distributed to boys and girls. A Farm Products Competition was also conducted in connection with the display at the Royal Winter Fair. Fifty-three prizes were offered and over five thousand women competed.

Excellent co-operation was received from the press in this consumer programme. The platform was used from time to time when members of the staff were invited to address meetings in towns and cities and some press advertising space was used.

MARKETING INVESTIGATION—NORTHERN ONTARIO

During recent years, applications have been received from time to time from farmers, groups of farmers and Boards of Trade asking for an investigation and assistance to marketing in northern areas. A special investigator was appointed and work was commenced on October 1st. This project has not been completed and therefore a full report cannot be given but results to date are very interesting. It has been found that for many commodities the farmers of Northern Ontario have distinct market advantages over those in southern districts. For a period of twelve months and to the three points only, Sudbury, Sault Ste. Marie and Cochrane, the following commodities were shipped in from outside points as follows in carloads:

Potatoes	180
Onions	13
Beans	12
Other Vegetables	80
Apples	116
Grapes	28
Other Fruit	44
Mixed Car—Fruits and Vegetables	243
Eggs	5
Butter	5
Packing House Products (including eggs and dairy products)	572
Oats	120
	1,318

It will be seen from this table that farmers in the North have a ready market for those products which may be produced advantageously in the district. In some cases reorganization will be necessary to take advantage of these opportunities and it is expected that the final report will offer suggestions along this line.

CO-OPERATIVE MARKETING

This Branch continues to give advice on co-operative marketing and particularly on the organization and incorporation of co-operative companies. During the year the following co-operatives were incorporated:

Ormond Co-operative Dairy Company, Limited, Peterborough, Ontario.
Toronto Workers' Co-operative Company, Limited, 448 Queen St., Toronto, Ontario.
Dundalk Farmers' Co-operative Company, Limited, Dundalk, Ontario.
Central Ontario Co-operative, Limited, Belleville, Ontario.
People's Co-operative Distribution Association, Limited, Toronto, Ontario.
Oxford Fruit Co-operative, Limited, Woodstock, Ontario.
The Durham Farmers' Co-operative Association, Limited, Durham, Ontario.
Middlesex Growers' Co-operative, Limited, Strathroy, Ontario.
Kapuskasing Co-operative Dairy Company, Limited, Kapuskasing, Ontario.

POTATO MARKETING

In our reports of the past two years, we have outlined the efforts being made to improve marketing of potatoes. Under the leadership of the Central Ontario Potato Growers' Association, the quality of potatoes being offered from Ontario farms has greatly improved. While prices this year have been very unsatisfactory due to a very large crop in Canada and the United States, our growers have the satisfaction of regaining their own markets as very few carloads of late potatoes have been shipped into any part of Ontario. This Association has expended its field this year by the organization of three new groups. Locals are now located at the following points:

Zephyr
Goodwood
Manvers
Garden Hill
Colborne
Alliston
New Lowell
Lafontaine
Craighurst
Whitefield
Orangeville
Erin
Hillsburg

This Branch continued the services of field men who assisted officers and members of this organization and also groups of farmers in other parts of the Province who applied for the services of speakers and advisers.

Farm Supplies

In attempting to make a profit, it is just as important that the farmer attempt to cut his cost of production as to get a higher selling price. Many farmers have found that they can do more to control their production costs than to influence markets which are controlled by world conditions. This Branch now offers a service to groups of farmers and dealers who require information on farm supplies. The feed situation has been surveyed and contacts have been made with manufacturers, dealers and consumers. We are assisting in finding a market for the excellent crop of corn produced in southwestern Ontario this year. Displays of feed and seed corn have been made at several of the larger shows and it is planned that this exhibit be sent to county seed fairs as well.

Problems in drying and preparation for market have been attacked and other action taken which we hope will assist in regaining markets which have been lost because of corn-borer injury in recent years. Car-lot buying of feed and fertilizers has been encouraged, the main purpose of which is to cut freight, credit and other distribution costs. A pamphlet dealing with the cost of distribution of these supplies was distributed widely.

Early this year the co-operation of railways was solicited in movement of agricultural lime. All railways operating in Ontario assisted by reducing former rates by 25 per cent. on all carloads of lime to which a new Government policy would apply. The Ontario Department of Agriculture in co-operation with the Dominion Department agreed to pay a subvention of one-half of the revised freight rate with a maximum of one dollar per ton. From April when this policy was announced until the end of the fiscal year, assistance was given to the movement of ninety-one carloads with an estimated saving to farmers of over $3,000. The chief advantage, however, was that farmers requiring lime were induced to purchase it. A service letter on feeds and feeding and another on fertilizers, have been released weekly since March 9th, 1931.

Crop Programme

The crop programme this year was drafted with a view of assisting farmers to reduce the cost of production per crop unit. Farmers were encouraged to meet present conditions by increasing their yield per acre and per animal by the adoption of more efficient methods.

Soils and Crops Train:

In co-operation with the Canadian National, Canadian Pacific and Pere Marquette Railways, a Soils and Crops Train travelled through thirteen counties in southwestern and central Ontario making sixty stops in forty days. The total attendance amounted to 10,705 adults and 5,290 children or an average of 267 per stop and 400 per day.

The Train consisted of four cars, a Soils Car carrying demonstration material on soils and fertilizers, a Crops Car showing new and better varieties, rotations, weed control, seed cleaning, etc., a Lecture Car and Tourist Car for the accommodation of the staff. The Train was equipped and staffed by the Ontario Agricultural College and this Branch. Farmers at all stops were very attentive and appreciated the many new ideas gleaned from the discussions and the demonstration material.

In specialized districts such as tobacco and sugar beet areas, special speakers accompanied the Train. Although the Train was primarily devised to cater to adults, school children were welcomed at every stop, and short special talks were given to each group of pupils as they visited the Train.

International Grain and Hay Show, Chicago:

Ontario exhibitors at the Internation Grain and Hay Show have again demonstrated their ability to capture high awards in almost every class of grain and grass seeds.

One hundred and twelve exhibits were forwarded to Chicago, on which eighty prizes were awarded. These entries came from all sections of the Province and entires were made in nineteen of the thirty-two classes open to Ontario exhibitors.

Ontario growers with sixteen entries made almost a clean sweep in Red Clover taking first, second, fourth, sixth and ten smaller prizes. In Soy Beans, five of the first six prizes in A.O.V. came to Ontario, all entries being the O.A.C. No. 211 variety.

Ontario corn growers who exhibited this year at Chicago for the first time in a number of years due to Corn-borer Regulations secured first and second prizes in Flint Corn and second and third in White Dent Region 2.

The Province of Ontario had the second largest Canadian Grain exhibit at the Show, being outnumbered in entries only by the Province of Alberta.

The whole exhibit brought forth much favourable comment from both American and Canadian visitors.

World's Grain Show:

Seed departments in all the large shows have increased their entries substantially during the past two years. The Ontario entries in the International Grain and Hay Show are nearly doubled and the quantity and appearance of the grain and grass seed was never better, all of which goes to show the preparation Ontario seed exhibitors are making for the World's Grain Show which is now to be held in 1933.

Weed control has progressed very satisfactorily since The Weed Control Act, 1927, has been in operation. The effect of the previous year's work is more evident each season. The most noticeable feature is the co-operation extended by citizens and municipal officers. During the summer of 1931 every municipality appointed at least one inspector. While perfection has not been attained and while some elected representatives showed a tendency to "go easy," the majority of them were sympathetic, consequently enforcement showed an improvement over any previous year. Owing to financial conditions, some municipalities reduced their expenditure on weed control. Local inspectors were assisted by two full time district inspectors and three part-time men under this Branch.

The final results of the two-year Sow Thistle experiment at Stratford showed conclusively that early plowing followed by good cultivation and the application of well-rotted manure or fertilizer is very beneficial in weed control.

Seed Cleaning Plants:

Fear of weeds and a desire to improve crops have increased the demand for clean seed in recent years. To assist in the establishment of suitable cleaning facilities, the Government adopted a subvention policy whereby grants amounting to fifty per cent. of the cost price of seed cleaning machinery plus freight, became available in February, 1931. Half of this expenditure is borne by the Federal Department of Agriculture and the remainder of the grant by the Ontario Department. Between March 1st and October 31st, seventeen new cleaning plants were established. Operators of these plants were given assistance on the installation of machinery and the operation of same. This Branch is now in a position to assist cleaning plant operators in the care of machinery so that more effective work may be done. Cleaning plants established under this policy during the years are as follows:

Name and Address of Operator	Grant
R. J. Kelly & Sons, Ingersoll, R.R. No. 1	$233.45
Geo. Hogg & Sons, Thamesford	236.24
Ross Farmers' Club, Cobden	500.00
J. W. MacRae, Alexandria	308.78
Jas. Freeman & Son, Yarker	231.36
Shirk & Snyder, Baden	233.45
E. S. Down, Shedden	233.45
E. H. Baird, St. George	232.67
J. W. Real, Uxbridge	232.64
S. T. Lovey, Hickson	233.18
Fennell & Wallace, Winchester	233.96
Elgin Land, Avonmore	236.71
J. C. Christensen, Morrisburg	229.96
D. A. Brownlee & Son, Richmond	313.48
Plantagenet Seed Growers, Plantagenet	226.12
J. T. Hemstock, Chatsworth	196.33
Addison Coulter, Foxboro	248.00
	$4,359.78

During the year a survey was made of all cleaning machinery in the Province. The information received included name and address of owner, the size, type and location of plant and machines, amount of seed cleaned for farmers in 1930, etc. This information will assist in locating new plants, and in keeping those already established in touch with new developments in cleaning and grading of seeds.

Community Halls:

Since the Community Halls Act came into force in 1920, one hundred and twenty projects have been undertaken, totalling in cost $1,041,534.10 and upon which grants have been paid to the amount of $175,408.84.

During the year just completed fourteen halls and parks were completed at a total cost of $57,812.16. The total grant on these projects amounted to $13,234.37

HALLS AND PARKS ESTABLISHED 1930-31

Hall or Park	Total Cost	Grant
Colpoy's Bay Community Hall	$6,424.73	$1,606.18
Victoria Square Community Hall	3,598.83	899.70
Horning's Mills Community Park	6,266.43	1,566.61
Vandeleur Community Park	2,441.52	610.38
Honeywood Community Park	2,016.95	504.24
Haliburton Community Hall and Park	11,693.57	2,000.00
Crediton Community Athletic Field	602.24	150.56
Castleton Co., Hall and Athletic Field	3,364.00	841.00
Waldhof Community Hall	406.00	101.50
Tobermory Community Hall	7,773.49	1,943.37
Dundalk Memorial Community Park	4,798.61	1,199.65
Humberstone Community Park	3,773.27	648.05
Lefroy Community Hall	3,324.00	831.00
Moorefield Community Park	1,328.52	332.13

In addition to the above, twelve others are in the process of construction.

Grants on Halls and Parks not only enable communities to build halls and recreation grounds better than they otherwise could but also in times of depression encourages construction and provides work for the unemployed.

COLONIZATION AND IMMIGRATION BRANCH

The following summarized statement may give the best picture of the activities of this Branch for the past year

Number of farm placements classified:

Single men	2,058	
Married men	42	
Married women	42	
Children	54	
Domestics	16	
Vimy Ridge Farm Boys	615	
Total		2,827

Total number of placements during the previous years:

Years	
1925–1926	2,624
1926–1927	3,581
1927–1928	3,124
1928–1929	4,340
1929–1930	3,091
1930–1931	2,212

Canadian Women's Hostel

Number of domestics who passed through the Canadian Women's Hostel, 90 Isabella Street:

Total Registrations	175
New Arrivals from British Isles	84
Transfers-in	91
Meals Served	17,647
Beds Supplied	6,665
Letters Received	9,713
Domestics passing through Hostel in 1929–1930	1,060
New Arrivals from the British Isles	837

Salvation Army

Summary of arrivals in the Province of Ontario:

Domestics placed	4
Boys placed on farms	99
Single men	22
Others unclassified	101
Total	226

Cost of operating Reception Lodges and aftercare:

Woodside Lodge, 480 Jarvis St., Toronto	$8,790 17
Mooreside Lodge, Smiths Falls	5,950 35
Clinton Lodge, Toronto	2,980 00
Burnside Lodge, Woodstock	9,721 26
Total	$27,441 78

VIMY RIDGE FARM, GUELPH, ONTARIO

Total number of boys received since the inception of the Vimy Ridge Farm Scheme, March 1st, 1926:

Arrivals in 1926	173
" 1927	428
" 1928	391
" 1929	510
" 1930	240
" 1931	31
Total	1,773
Boys having resided for less than three years in Canada, who were actually engaged in farm work on the date of their transfer to the Board of Home Missions, October 1st, 1931	481
Amount held in Trust and transferred to the Board of Home Missions, to be placed to their respective credits, November 1st, 1931	$19,669.20
Subsequent amounts transferred since November 1st	2,035.02
Total	$21,704.22

Having regard for the policy of the Department to reduce immigration to the Province to a minimum, it is a pleasure to report that every organization actively engaged in forwarding immigration work has co-operated with this Branch to the best of their ability.

While domestics (new arrivals from the British Isles) passing through the Canadian Women's Hostel during the year 1929-30 numbered 837, new arrivals in 1930-31 numbered only 84. The demand for domestic help this year was largely taken care of by married women whose husbands were out of employment.

With regard to farm labour, the Branch has made efforts to supply the needs of the farmers but on account of low prices and distressed conditions in the country there was a decided decrease in the number of applications for farm labourers this year. Notwithstanding this situation and the farmers' inability to hire men last season, 2,212 men and 615 Vimy Ridge boys were placed on farms during the year.

AGRICULTURAL DEVELOPMENT BOARD

Following is a comparative statement showing the business of the Board for the past ten years and illustrates, especially during the last ten years, the rapid increase in the demands made for the services of the Board as well as the amount of money out on loan.

Year	Number of applications passed	Amount of loans passed	Value of security	Number of loans paid out	Amount
1922	458	$2,040,605 00	$4,693,403 00	334	$1,188,000 00
1923	953	3,729,350 00	8,685,166 00	776	3,000,000 00
1924	990	3,582,150 00	7,871,026 25	819	3,200,000 00
1925	892	3,246,680 00	7,917,300 00	701	2,700,000 00
1926	1,119	4,028,300 00	9,089,008 57	831	3,200,000 00
1927	1,275	5,043,995 00	11,298,263 50	1,001	4,100,000 00
1928	1,567	5,670,025 00	13,903,576 17	1,132	5,000,000 00
1929	1,757	6,803,393 00	14,797,660 20	1,397	5,800,000 00
1930	2,764	8,969,225 00	20,293,918 24	1,887	7,000,000 00
1931	3,361	9,701,420 00	21,913,130 45	2,329	7,900,000 00
Total	15,136	$52,815,143 00	$119,742,452 38	11,207	$43,088,000 00

It will be observed that there has been a substantial but not alarming increase in business during the year. Applications during the first few months of the fiscal year showed considerable decline as compared to the same months of the previous year. Applications refused numbered 876 as against 905 the previous year and hence showed a slight decrease. Altogether, the Board dealt with 4,237 formal applications.

New debentures issued during the year amounted to $7,900,000. Repayment of capital to the Provincial Treasurer was made to the extent of $1,700,000. During the year, $1,279,689.06 was paid to the Treasurer as interest on debentures, being the full amount due. In addition, the sum of $203,769.10 was paid over to defray in full the administrative costs of the year. Further provision was made to the extent of $50,144 for inevitable farm losses and taxes were paid to the extent of $25,906. Considerable of the latter will come back. After providing for all these items, there is shown an operating surplus for the year of $128,796.02.

The question most often asked is: How are collections? The answer is partly in the foregoing facts. Collections have made possible payment of interest on debentures and payment of administrative costs. Collections under present conditions are bound to be difficult, both for the Board and the borrower. The season has been one of good crops and very, very poor prices. Faced with returns cut in half or less and yet little decrease in the things they have to pay for, farmers have yet carried on with commendable courage and steadiness. We have been able to reduce arrears outstanding more than two years to less than fifteen per cent. No figures are available but arrears for the years 1930 and 1931 are very substantial. It has undoubtedly been a real service to agriculture to be able to provide this further accommodation. Appreciation of this service is shown by a determination to "catch up" just as soon as possible.

During the year, sale proceedings were completed on thirty-one farms. Of these, seventeen were sold and fourteen are on hand. In addition, however, the Board sold forty-nine other farms which were previously taken over, making a total of sixty-six sold during the year. The Board has about fifty farms on hand, many being in New Ontario. Practically all are operated on a rental basis and very few remain idle.

TEN YEARS' RECORD

With this year, the Board completes ten years of operation. It is recognized that an enterprise of this nature can only be judged over a considerable period. Ten years is long enough to include a reasonable variety of climatic conditions and economic conditions and a brief review may be of value. This period includes years of comparative high prices, and consequent high land values following the war—not the maximum in our history but higher than average. It includes years of seasonal handicaps—in some sections a drought, in others too much moisture. It includes two years—the last two—of the most trying conditions farmers have had to face during the present century. It will, therefore, be apparent that such a period constitutes a severe test of a loaning organization dealing exclusively with agricultural securities.

During that period this Board has issued debentures taken up by the Provincial Treasurer to the extent of $42,888,000. This has been loaned to 11,200 farmers in sums varying from $500 to $12,000 and located in all sections of the Province and producing all kinds of crops and live stock. Of these debentures, $6,488,000 have been paid back, leaving $36,400,000 outstanding at the end of this ten year period. All payments of interest on these debentures have been met as due. Operating on a margin of one per cent. with other incidental revenues, the Board has paid back the entire cost of operation since its inception and hence it is clear that up to the present the Board has not cost the Provincial treasury a single dollar. Not only is this true, but there is shown in addition, an operating surplus for the period of $648,962.07. At the same time it may be claimed that a very substantial service has been rendered to the farming industry. The interest rate of five and a half per cent. is as low as is to be found anywhere and is one to four percent. less than is otherwise charged throughout the Province. Yet it is as high as prevailing farm revenues could be expected to meet. The interest rate and the availability of money for farm purposes have both been points of advantage.

How far the experience of these past ten years may be taken as a guide to the future is an interesting point. We make no predictions. While the volume has assumed substantial proportions, loans have been made on only some 11,200 farms and there are approximately 200,000 farms in this Province. If one-half of these are free of mortgage, it would be a very good showing. The volume, therefore, may be expected to increase. The other point is as to maintaining the system on the same sound business basis as in the past. There can be no doubt but that the conditions of the past two years have created difficulties which it will take years of patient work and thrift to overcome. Hundreds of farmers are struggling with loads of debt which would daunt the ordinary man. In many cases, these debts were not the result of thriftlessness or carelessness but a combination of circumstances which could not be foreseen. It will be the aim of this Board to try to help farmers work through these difficulties where it can be done on sound business lines. The future trend of general economic conditions will no doubt have a considerable bearing on how soon and how completely success will be achieved. Some will fall by the wayside. When the "overhead" of debt becomes too great for the individual and for the property, economic law and common sense both call for a fresh start in the interest of all concerned. This does not necessarily involve serious losses for this Board. Even our weakest accounts will compare favourably with the stock certificate "assets" of some of our financial institutions. It does, however, call for patience and vigilance and courage. Unless we are called on to deal with conditions worse than heretofore, unless present signs of improvement fail, the basic soundness of Ontario farm lands may be expected to be proven once more in the next ten years.

SHORT TERM LOAN ASSOCIATIONS

The statement of the Short Term Loan Associations shows an increased demand for the accommodation these associations provide. New loans to the extent of $51,535 were passed by the directors of the Associations and $19,516 was paid off principal of old loans. Interest payments were met with the exception of about $2,000. The total now outstanding is $171,082. There is no doubt good security behind practically all these loans.

KEMPTVILLE AGRICULTURAL SCHOOL

The increase in attendance at the Kemptville Agricultural School has been greater during the past year than in any previous year, in fact the accommodation in the boys' residence was almost completely utilized. Farmers in Eastern Ontario are making greater use of the institution and the requests for assistance at rural meetings for members of our staff have considerably increased.

The enrollment of Household Science students is yet much too small but the addition of a Household Management Course has improved attendance. The Short Course for Homemakers (January 4th-March 25th) was only fairly well patronized, although it offers an excellent opportunity for farm girls to gain valuable training and information.

The attendance in the regular classes was as follows:

Agriculture, Senior Year	29
Agriculture, Junior Year	42
Domestic Science	6
Agriculture, Short Course	20
Domestic Science Short Course	12
Teachers' Summer Course	77

No additions or improvements were made to the buildings of the School during the year except required repairs and the painting of part of the interior of the boys' residence.

The health of our flocks and herds continues to be excellent. Some creditable R.O.P. records were made in both the Holstein and Ayrshire herds—four Holsteins averaging four per cent. or better for the year. Two years' experience has convinced us of the wisdom of having ewes lamb in February and March. Our lamb crop was sold early in May for twelve cents per pound, and lambs weighed from forty-five to fifty pounds. Our ewes were in excellent condition when bred this fall and our next lamb crop should benefit as a result.

Considerable interest is being shown in the district in the breeding of hunter and saddle horses—a project started by our institution in 1930. The thoroughbred stallion, "Rancher," loaned to our School by the Dominion Live Stock Branch, is proving a very excellent sire.

FIELD HUSBANDRY

During the fall and winter terms, as formerly, lectures and practical instruction were given to the regular students. Considerable extension work as well was undertaken in connection with this department. Increasing demands are being made by farmers, for information regarding field crop production, etc.

With a few exceptions the crop yields were not as good as the previous year. This was especially true of the cereals. Spring crops were given a good start. The dry spell which set in reduced the yields of most of the cereal crops. The new hay seedings wintered well and excellent stands of alfalfa and mixed hay were harvested under ideal conditions. One hundred and fourteen tons of alfalfa, first and second cuts were mowed. A total of one hundred and forty-six tons of hay of all kinds were harvested, making the good average per acre of over three tons. Sweet clover continues to be our main silage, pasture and green manuring crop. The silage area averaged over nine tons of green clover to the acre. The new spring seedings for hay and silage, regardless of the very trying dry spell, were in good condition when winter set in. The open moist fall aided these areas to revive sufficiently well to produce a good growth. Fall pastures were excellent in comparison to the previous season, with the result that livestock were generally in a thriving condition when they were housed for the winter.

Fall wheat was the only crop that outyielded the 1930 cereal crops. All others were lighter and not of as good quality generally. Alaska oats, which continue to be in demand, yielded sixty-five bushels to the acre. This year's grain of this variety qualified as Registered No. One seed, second and third generations. Barley went as high as fifty-seven bushels per acre and spring wheat of the Huron variety yielded thirty-six.

Mangolds gave us the excellent yield of twenty-four and one-half tons to the acre for a total of over one hundred and sixty-three tons. A total tonnage of two hundred and eleven composed of mangolds and turnips was harvested under ideal conditions. Root growing is increasing and there is no better way of guaranteeing the health of herds and flocks than by using roots for winter feeding. The mangold crop followed a Sweet Clover silage crop which was manured in the spring of 1931 at the rate of about twenty tons to the acre. This area was thoroughly summer cultivated in 1930 after the Sweet Clover harvest. This method decreases weed troubles and at the same time produces a deep seed bed.

The Dooley and Irish Cobbler varieties of potatoes were grown with a reduced yield over the past season. This reduction was due in a large measure to the dry spell. The certified Dooleys however averaged 205 bushels per acre of excellent potatoes. The seed of this crop which is left after our own requirements are satisfied will be sold as Certified No. One grade.

A number of one-fiftieth acre plots were sown for variety tests: two of barley; two of late oats; two of spring wheat; two of soy beans; five of peas; one of flax; five of mangolds. These were quite interesting and many visitors made use of them for comparing different varieties as to maturity, yield, etc. They also served in an educational way, the Summer Teachers' Course and the Canadian Seed Growers which were attending that organization's convention which was held at the School the past season. Besides these small plots a number of one-acre plots of Elite grains were grown for the production of registered seed which is in demand at the present time. Our 1930 seed grain was readily disposed of and our supply was exhausted at an early date.

As formerly, the institution conducted a severe after-harvest cultivation. This is a highly recommended practice for the control of weeds and the improvement of soils generally. The areas so cultivated were ribbed up this past fall.

Our seed-cleaning plant, regardless of the increased number of like plants in the district, has increased its business. Two hundred and twenty-three individual farmers made use of our plant in 1930-31 in comparison to 156 in 1929-30. We have had by far the largest quality of red clover seed to clean this year that we have ever had, as well as increased quantities of other classes of seeds.

CHEMISTRY DEPARTMENT

During the year regular lecture and laboratory courses were given to the regular and summer course students. With the large classes in attendance all laboratory work had to be duplicated owing to the small amount of laboratory space.

The fertilizer work of the department is growing steadily and many inquiries regarding same have been dealt with both through correspondence and personal contact. During the last season a new scheme of fertilizer experiments was carried out with our first-year students. A competition was held between eleven of our students for prizes offered by the N. V. Potash My. Each student carried out an experiment on his own land, applying the fertilizer, looking after the crop and obtaining the results of same. Potatoes, clover and barley were the crops to which the fertilizer was applied. One barley plot, two clover plots and nine potato plots were fertilized.

APICULTURE DEPARTMENT

The summer of 1931 was very hard on bees, being so hot and dry. Clover honey prospects looked good, but because of the dry weather the supply was cut down very seriously. The bees came through the winter in good shape and strengthened up rapidly but when the hot dry weather arrived the production fell down badly. Darker honey production was very good but matured early and, with the late fall, winter feeding was not as heavy as usual.

HORTICULTURAL DEPARTMENT

The Horticultural work in connection with the School during the past year has included, as formerly, lectures and practical instruction in the subjects of Botany and Entomology.

During the winter and spring seasons a number of special lectures were given to horticultural societies and agricultural short courses, and during the summer, demonstrations and practical assistance was rendered to a number of calls upon request, in matters dealing with orchard management, garden practice or home planning.

Practical work done by students in Horticulture at the School has greatly benefitted by the addition, last winter, of a second small greenhouse. With the facilities available up to that time it was quite impossible to handle a class of thirty or forty students in practical work.

For the third year in succession a long period of hot and dry weather seriously affected the crop of fruit in many eastern orchards situated on high, light ground and particularly where such soil was shallow. The School orchard growing on a situation of this type, it was only to be expected that those trees on the high ground would suffer from this extended drought. The crop set well and gave promise of being a fairly good one, but at time of harvest fully a third of the total crop was so much below standard size that it could only be classed as cull fruit.

Owing to the lack of suitable facilities for storing vegetables and fruit for School purposes it was decided to experiment with storing some fifty barrels in "Field-Pit" conditions, the pit being identical to that used for the storage of roots. It is hoped that by this means it will be possible to carry over some of the fruit for winter and early spring use that has not been possible up to this date.

The orchard experiment in testing the suitability and types of fertilizer mixtures was continued and though certain rows of trees showed greater vigour of growth and foliage there was no apparent advantage to be observed in the yield of fruit. Climatic conditions of the past three years have been most unsuitable for obtaining results from the standpoint of fruit yields.

The extension of the campus that was begun last year was carried further towards completion, a good lawn being obtained and suitable groups of trees and shrubbery planted, and additions were made to our collection of herbaceous perennials.

The Horticultural Department of the School desires to express sincere thanks for contributions of plants made from time to time by private individuals, by the Horticultural Experiment Station at Vineland, by the Department of Horticulture of the Central Experimental Farm at Ottawa, and by the Department of Horticulture, O.A.C., Guelph.

POULTRY DEPARTMENT

The lower prices for all agricultural products has been felt by the Poultry Department, and shows itself in a slightly reduced revenue.

The past season has been a most successful one from the standpoint of the production of breeding stock. The demand for pullets and cockerels far exceeded the supply and it was necessary to refuse requests for 900 birds.

Owing to the uncertainty of markets last spring there was a noticeable falling off in the number of early hatched chicks in Eastern Ontario. This condition has been reflected in the local markets for both eggs and poultry meat.

A very gratifying condition now exists among our ex-students, in that a considerable number of them are carrying a very successful sideline in poultry on their home farms. These young men are developing good flocks and are leaders in their communities in poultry work.

Extension work among those interested in poultry is on the increase, and the interest in good stock is growing to a surprising degree. The most noticeable feature of this work is the number of men who are interested and are carrying poultry as a major project on their farms. This condition is also reflected in the student body, where more interest is being shown from year to year.

The usual course of instruction has been carried on in class and on the Poultry Plant. This work consists of lectures in Breeds, Housing, Feeding, Breeding and Diseases, in conjunction with practical work in feeding, Incubation and Judging.

HOME ECONOMICS DEPARTMENT

The two-year Household Science Course, which was established last year is progressing, although the attendance is still disappointing. This year it was thought advisable to introduce an Institutional Management Course, which has increased the attendance somewhat. The establishment of these courses necessitated the purchase of some new laboratory equipment.

The work during the year consisted of lectures and practical instruction in Cookery, Dietetics, Sewing, Textiles, Home Nursing, Physiology, Psychology, Household Management and Economics of the Household, also field trips to the Ottawa Museum, Iroquois Linen Mills and Cornwall Silk Mill.

During the year assistance was given to Agricultural Representatives at Judging Competitions and School Fairs, and also to Women's Institutes at their regular meetings.

NEW LISKEARD DEMONSTRATION FARM

During this, as in former years, one of the main features of the work of the Farm has been the production of good livestock and seed grain for distribution purposes throughout the district adjacent to the Farm and others of the north, where there was a demand.

The use of home-grown products in the feeding of live stock is emphasized in the live stock feeding programme, and a mixture of ground oats and barley in the proportion of two to one, along with a small proportion of bran and oil cake, comprises the main grain ration for the dairy herd.

The Farm is very much of the opinion that roots are important in the feeding of cattle for milk production and, while it may cost a farmer something to produce a crop of roots, results obtained from their use would appear to justify the expense. The feeding of roots would appear to lessen necessity for an expenditure of cash for the purchase of concentrates.

The Farm has increased its hog population, and is now in a position to render more valuable service in supplying good breeding stock.

The poultry work has also been increased and with the present accommodations better work can be done in the future than has been accomplished in the past.

Speaking in a general way of the status of Eastern-Northern Ontario Agriculture, it can truly be said that advancement has been made in the production of more and a better quality of livestock products, creameries throughout the district report increased production, poultry flocks have been enlarged, in fact, the live stock population of the District has increased considerably.

Many farmers, even though the prices for live stock products are low are realizing that their herds and flocks help to bring in at least a small revenue during these somewhat trying times.

Interest in land settlement is equal if not more pronounced than during those years when times were better.

PRECIPITATION

Total precipitation for year November 1st, 1930, to October 31st, 1931	30.74 inches
Average total precipitation for last five years	31.49 "
Total precipitation for 7 months ending October 31, 1931	23.71 "
Month having greatest precipitation, July	6.88 "

TEMPERATURE

Highest temperature during year	93 degrees in June
Lowest temperature during year	38 degrees below zero on the 24th of January.

SUNSHINE

Days of bright sunshine	238 days
Total number of hours bright sunshine	1478.3 hours
Average number of hours sunshine per day	4.05 "

ANIMAL HUSBANDRY

The two breeds of cattle namely, Holsteins and Shorthorns gave results beyond the previous year.

The Holsteins in 1930 with the average age being 3.5 produced 8,198.3 pounds of milk, with an average period of 270.8 days. The daily average being 31.62. This year the herd registers 4.2 average in age and produced 10,312.3 pounds of milk over an average milking period of 325 days, a daily average per cow of 31.73. The average test of the herd this year is slightly below that of last year, 3.77, as compared with 3.81.

The Shorthorns also increased production with about the same milking period, production increased from 4,833.7 to 5,238.0 per cow. The average age is slightly more. The average Butter Fat test last year was 4.6 as compared with 4.3 for this year.

The herd is accredited and all milch cows are entered in the Record of Performance Test.

Sheep. The Farm still maintains its flock of Shropshire ewes and has about forty breeding ewes for breeding purposes. Every effort is made to keep the standard of the flock as high as possible. The standard set by the Shropshire Association is the objective in connection with the handling of the sheep flock.

The Farm takes advantage of the purebred Wool Grading system as inaugurated by the Live Stock Branch, Ottawa, and believes it is very much worthwhile when checking or culling over the flock as one can cull out those ewes that have inferior fleeces.

Hogs. Work with hogs during the year has been the best in the history of the Farm and as with all other classes of live stock, a special effort is made to have, for sale, at reasonable prices, stock of good quality.

A seven-pen hog building permits the keeping of a fair number of brood sows and the rearing of market hogs as well as breeding stock. Farmers visiting the institution have shown a very keen interest in the hogs.

Poultry. The poultry activities of the Farm were greatly increased during the year resulting in a much larger laying flock than the year previous and permitting preparations being made for the hatching of a much larger number of chicks next year and the making of plans to supply a demand for young pullets in the early fall.

FIELD HUSBANDRY

Results obtained from the variety testing of different kinds and varieties of cereals under plot conditions is always interesting, but possibly more interesting is results obtained from larger areas under field conditions.

The following table gives results from wheat, oats, peas and barley under field conditions:

Variety	Number Acres	Seeded	Yield per Acre (Bushels)
Spring Wheat (Reward)	2.7 5.0	May 7th May 15th	13 bus.
(The crop seemed to be very materially affected by a heat wave early in July resulting in the grain being considerably shrunken)			
Oats (O.A.C. No. 3)	10	May 16th	23 bus.
Oats (O.A.C. No. 3)	20	May 18th to 25th	25 bus.
Oats (Alaska)	40	May 28th to 30th	32 bus.
Barley (O.A.C. No. 21)	20	May 29th	23 bus.
Peas (Chancellor)	7.5	May 27th	17 bus.

The above results as compared with the tabulated results from plot tests shows a very wide margin between yields of the same variety under field conditions and under plot conditions.

This brings out the rather interesting fact, that drainage is a very important factor in obtaining yields under field conditions similar to those obtained under plot conditions. Plots are always much better drained than the average field.

This may indicate the necessity for plowing more narrow ridges to improve surface drainage.

Rainfall and excessive heat as already stated in this report helped reduce crop yields to some extent.

Silage. Hay, pasture and silage crops were quite up to if not beyond the average in yield and quality.

A fifteen-acre field of new seeded clover pastured about twenty head of cattle throughout most of the summer season.

A twenty-acre field of oats, peas and vetch, for silage purposes filled one and a half silos fourteen by thirty feet.

Fertilizer Work. Some fertilizer work was carried on during the year, more particularly with potatoes and turnips while some Muriate of Potash was applied to peas.

Outstanding results were obtained from the use of fertilizer on early potatoes and turnips. Potatoes were fertilized with 2-12-6 and turnips with 0-12-5. Turnips responded more readily to the fertilizer than any other crop on the Farm and results certainly indicate its use for another year.

Fertilized areas yielded much more heavily than unfertilized.

Fall or Winter Wheat. Fall or winter wheat is still recognized as one of the worthwhile cereals for the Farm, a twenty-acre field again being produced this year.

The Dawson's Golden Chaff variety under test has won out against all other varieties, more particularly because it seems to winter better than others and stands up very much more satisfactorily.

The quality of this year's crop was good enough to attract buyers from the older part of the Province.

It would appear that fall wheat over a period of years will give greater yields, better quality crop, than spring wheat. It is recommended in preference to spring wheat for the production of a grain to be used for live stock feeding.

FIELD, ROOT AND VEGETABLE CROPS

Name	Variety	Name	Variety
Mangles	Yellow Leviathan	Cabbage	Copenhagen Market
	Giant Half Sugar.		Winnigstadt.
			Mammoth Red Rock.
Beets	Detroit Dark Red.		Large Drumhead Savoy.
	Flat Egyptian.		
		Spinach	Improved Victoria.
Carrots	Early Gem.		Broad Thick Leaf.
	Early Scarlet Nantes.		
	Chantenay.	Tomatoes	Bonny Best.
			Early Anna.
Parsnips	Hollow Crown.		
	C. Thomas (turnip rooter).	Cucumbers	Early Fortune.
			Chicago Pickling.
Onions	Dutch Sets.		Improved Early White Spine.
	Early Red.		
	Early Silver Skin.	Squash	Improved Hubbard.
	Yellow Globe Danvers.		Field Pumpkin.
	Early Yellow Danvers.		
Cabbage	Danish Ballhead.		Early Snowball.
	Late Flat Dutch.	Cauliflower	Early Snowflake.
	All Head Early.		
	Early Jersey Wakefield.		

NOTE.—The foregoing varieties of field, root and vegetable crops were produced on the farm this year and all gave very satisfactory results and can be recommended for Northern Ontario.

Tomatoes (field) ripened quite abundantly this year, due to a rapid spring growth and therefore early maturity.

The use of house boxes or hot beds to start some of these crops is recommended. Such a system permits transplanting strong, vigorous plants when danger of frost is over, resulting in early maturity.

HORTICULTURE

A limited amount of Horticultural work is being done on the Farm more particularly with small bush fruits, raspberries and strawberries.

The Senator Dunlop strawberry and the Herbert raspberry are two varieties that can be recommended for Northern Ontario and that have given splendid results on the Farm.

Certain of the early maturing varieties of plums and Russian apples have indicated possibilities in the production of these fruits.

Gooseberries and currants (all kinds) are found to be very hardy and give a very satisfactory yield of fruit.

RIDGETOWN EXPERIMENTAL FARM

The season was satisfactory and generally crops were good. Oats were lighter than usual. The corn crop would measure up with the crops realized previous to the outbreak of the corn-borer, and it was cribbed in excellent condition. The sugar beet crop was harvested in excellent condition. The tobacco crop was large—farmers were advised by the companies to grow particular varieties only in order that the quality of the product would more nearly meet the demand of the consuming market. The bean crop was injured by the clover worm and also by storms in some sections. Canning factory crops were, in many cases, not disposed of—the crops were heavy and the total yield more than the factories would accept.

Rainfall during the growing season:

April	3.19	inches—3″ Snow
May	2.40	"
June	1.91	"
July	4.21	"
August	1.27	"
September	2.36	"
October	3.35	"
Total	18.69	"

FARM CROPS

The Farm crops were very good; the oats, barley and beans were not up to normal yields but were satisfactory considering the season and insect problems. In addition to the undermentioned crops, six acres of tobacco were also grown. The corn was the best produced since the farm was taken over by the Department.

Fall Wheat	1,275	bushels	from	30	acres
Oats	891	"	"	16	"
Barley	334	"	"	10	"
Beans	560	"	"	28	"

LIVESTOCK

The Swine Department has been particularly satisfactory. The sows farrowed in March and early April and eighty-four pigs were reared. Fifty were sold at five months of age averaging 202 pounds. The sows were sold for breeding purposes and the demand was far in excess of the supply.

No trouble was encountered with parasites; the ordinary preventive measures were employed. The system of alternating pasture lots evidently is responsible for keeping parasites to a minimum.

STEERS

Cost:		
20 steers—21,070 lbs. at $6.55		$1,380.08
Sale:		
20 steers—23,020 lbs. at $6.75		$1,553.85
Less freight, sale and stock charges at Montreal	$138.83	
		$1,415.02

The drop in the market caused rather heavy losses—feeders did well to break even, without any consideration for feed.

POULTRY

The desire to improve farm flocks is quite general throughout south-western Ontario as evidenced by the demand for hatching eggs from a trap-nested and blood-tested flock; requests range from a single setting to sufficient to fill large incubators. Particular care has been given to the flock so that such orders might be filled satisfactorily to the purchasers.

A new laying house was built during the past summer, which will permit, not only of keeping more hens, but also of more careful selection for foundation stock.

Much information is given to visitors regarding feeding and housing of flocks. Some culling is done for farmers. Large numbers of sick birds are brought to the farm and many visits were made to farms to assist in clearing up difficulties.

Students of the Vocational Agricultural School use the poultry plant freely in connection with their work.

HORTICULTURE

The rose garden and flower borders attracted a large number of visitors, many of whom made repeated visits. The labeling of all varieties of flowers is much appreciated and the general interest of the visiting public increased by this means. Advice was freely asked and given about all phases of home ground improvement. Illustrated lectures in local centres further stimulated this interest. Named exhibits from the Farm were displayed in several horticultural flower shows.

A windbreak of Carolina Poplar was planted on the north and west sides of the young five-acre orchard and has made wonderful growth. This poplar would appear to be an excellent, quick-growing variety for summer windbreaks.

Both bush and tree fruits yielded abundantly with the exception of Northern Spies, which were light, probably because of severe frost late in spring after bud growth had commenced.

The greenhouse proved very attractive to winter visitors. Considerable lettuce and tomatoes were produced and sold locally.

In this Department, too, students of the Vocational Agricultural School received practical training which consisted of pruning, transplanting, production of early and late vegetables and the propagation and recognition of flowers. The close co-operation of this School and the Farm is of great importance to both institutions and to the surrounding countryside.

INSECT PESTS

The commoner insect pests of field, garden and orchard were exceptionally troublesome. Sod Web-worms (Crambus species) made unsightly patches in lawns and greens throughout the country. The Granary Weevil and the Saw-toothed Grain Beetle infested many farm granaries.

An outbreak of the Green Clover Worm (Plathypema scabra) on field beans developed in early August. This was the first outbreak of this pest in the Province. Field beans throughout Kent were heavily infested. The greatest damage was done to the earlier sowings. Some fields of considerable acreage were completely defoliated and the green pods partially destroyed; many others had their yields lessened from five to ten bushels per acre. Immediately the outbreak was noticed all available information as to control was secured. This was somewhat meagre. Spraying and dusting of the twenty-eight acres of beans on this Farm with various strengths of calcium and lead arsenate was at once undertaken. These treated acres were visited by many anxious farmers to note the results. Considerable time was devoted to visiting infested fields and advising owners on combatting methods. Effective and economical control measures advocated were—spraying with two pounds calcium arsenate or three pounds lead arsenate plus three pounds hydrated lime to forty or fifty gallons of water per acre, or power dusting with from fifteen to 25 pounds per acre of a dust composed of one pound calcium arsenate or one and one-half pounds lead arsenate plus eight pounds hydrated lime. The dusting gave quicker results but at a higher cost for materials. These control measures considerably lessened the losses in treated fields.

A great deal of credit is due to the Dominion Entomological Branch at Chatham for their valuable co-operation in combatting all these insect pests.

2-12-6 FERTILIZER EXPERIMENT—EARLY POTATOES

Experimental Farm, Ridgetown, 1931

Rate of application per acre	Yield per acre Bags	Increase over check per acre Bags	Value of Yield per acre	Value of increase over check per acre	Cost of Fertilizer
200 lbs.	101.1	13.7	$50.55	$ 6.85	$3.80
300 lbs.	110.0	22.6	55.00	11.30	5.70
400 lbs.	114.4	27.0	57.20	13.50	7.60
500 lbs.	112.2	24.8	56.10	12.40	9.50
600 lbs.	121.1	33.7	60.55	16.85	11.40
No fertilizer	87.4	....	43.70	....	....

TO ASCERTAIN ACTION OF POTASH ON YIELD OF POTATOES

Rate of Application—600 Lbs. per Acre

Fertilizer Analysis	Yield per acre Bags	Increase over check per acre Bags	Value of yield per acre	Value of increase over check per acre	Cost of Fertilizer
2-12-4	101.1	23.6	$50.55	$11.80	$10.95
2-12-6	106.6	29.1	53.30	14.55	11.40
2-12-8	112.2	34.7	56.10	17.35	11.85
2-12-10	112.2	34.7	56.10	17.35	12.30
No fertilizer	77.5	....	38.75	....	....

FERTILIZER EXPERIMENTS—SUGAR BEETS, 1931

2–12–6 Fertilizer Applied at Different Rates of Application

Rate of application per acre Lbs.	Yield per acre Tons Lbs.	Sugar %	Purity %	Value of yield per acre	Value of yield per acre after deducting cost of fertilizer
100	10— 1,938	14.4	87.4	$61.16	$59.26
200	11— 182	14.7	86.7	62.01	58.21
300	12— 342	14.1	87.1	66.94	61.24
400	12— 1,948	14.5	86.6	72.33	64.73
500	12— 1,317	15.0	85.8	71.17	62.17
600	12— 1,663	14.6	87.3	71.30	59.90
700	12— 1,651	14.5	86.6	71.02	57.97
800	13— 821	14.0	87.1	74.10	58.90

Note.—These results are based on prices paid by the factory, which were $5.50 per ton, plus a bonus of 50 cents per ton for each one per cent. of sugar content over 15 per cent.

FERTILIZER EXPERIMENT—SUGAR BEETS

Experimental Farm, Ridgetown, 1931

Variations in Amounts of Phosphoric Acid

Fertilizer Analysis	Yield per acre Tons Lbs.	Sugar %	Purity %	Value of yield per acre	Value of yield per acre after deducting cost of fertilizer
2–12–6 at 400 lbs. per acre	11— 800	15.7	86.2	$66.69	$59.09
2–16–6 at 400 lbs. per acre	11— 1,580	14.8	87.1	64.84	56.44
2–20–6 at 400 lbs. per acre	12— 600	15.0	86.6	67.65	58.45
No fertilizer	9— 1,980	16.7	90.6	63.43	63.43

SUGAR BEETS—THINNING EXPERIMENT

Experimental Farm, Ridgetown, 1931

Distance of Thinning	Yield per acre	Sugar %	Purity %
	Tons Lbs.		
9 inches apart	12— 950	14.8	87.2
12 " "	11— 850	15.1	89.8
15 " "	10— 890	16.2	88.7
18 " "	9— 1,430	15.3	88.3
21 " "	9— 130	17.5	87.8

The extension activities are gradually growing, which makes it necessary to so organize the work to permit of absence from the farm much more than during the past years. At least one-half of the superintendent's time is taken up with outside activities of various kinds and the call upon the time of Messrs. Neilson, Mackay and White is becoming greater. This phase of the work is important and should not be neglected.

The present situation in agriculture is strenuous and considerable attention is being given to ways and means which may be adopted to assist in the stabilization of a farmer's income. Undoubtedly in a section such as south-western Ontario, where cash crops have had a large influence, more attention should be paid to what might be termed the fundamentals of good farming and to use the cash crops in a proper manner. The producer to-day must diversify and obtain returns from every possible source, thereby shifting the burden of returns more largely from cash crops to a number of crops and all classes of live stock. No source of income is so insignificant that it can be profitably overlooked.

The general appearance of the farm, especially the lawns, shrubs and flowers has been improved and has created much interest throughout the surrounding sections.

HEARST DEMONSTRATION FARM

The Hearst Demonstration Farm was first established under the Department of Northern Development in 1924. At that time a start was made in clearing land and erecting buildings. Later, a new barn was built and more land cleared. The Farm has since been transferred to the Department of Agriculture.

The Farm assists settlers by supplying them with foundation stock, hatching eggs, seed grain, seed potatoes and so forth at reasonable prices. A power cleaning mill is operated where locally produced grain is cleaned and made suitable for use as seed. Several farmers also bring grain to be ground for their pigs, poultry and other live stock.

Male animals of desirable type are kept for service at nominal fees. Members of the staff answer several calls in connection with animal diseases, such as colic, difficult parturition, retained after-birth, milk fever, bloat, etc. Numerous farms are visited in order to discuss with owners their own local problems. The number of settlers seeking advice by visiting the Farm and by correspondence continues to increase.

Both the winter and summer of 1930-31 were among the finest ever experienced in the North. The snowfall was light, with periodic thaws during the late winter months which cleared the fields. There was plenty of moisture during the summer, 14.31 inches during the five growing months, yet good weather prevailed for haying and harvest. The season was most opportune for clearing and breaking new land. Settlers took advantage of the situation and as a result there has been more land cleared and ploughed in this part of the district this season than in any previous year.

Considerable time was spent in assisting with the organization of an Agricultural Society, with headquarters at Hearst. This new Society has 112 members. A very successful Fair was held during September when 276 entries were made. Two Field Crop Competitions, one in oats and one in potatoes, were also conducted. Fourteen fields of oats and sixteen fields of potatoes were judged in these competitions and all concerned expressed themselves well pleased with the high quality of the crops produced in the Northland.

PROVINCIAL ZOOLOGIST

Field investigations were carried out on premises where heavy losses in sheep and swine were being experienced. Favourable reports on this work were received in every case.

The lectures and demonstrations at farm meetings, of which thirty-five were held, consisted of a practical talk on parasitic diseases of farm animals, a display of material illustrating existing conditions in flocks and herds, and the autopsy of parasitised animals. Demonstrations in sheep parasite control were also given at the Sheep Dipping meetings, in two counties, Wellington and Lincoln. These farm yard meetings are very popular with stock owners and are always well attended. The instruction being taken directly to the farm yard and stable where neighbour farmers can attend and see for themselves.

The demonstrations at the Swine Club gatherings, held at various centers in Eastern Ontario, consisted of the application of treatment to the young pigs that were being distributed, and a talk to the members of the Club, on animal hygiene and parasite control.

The exhibits staged at the larger fairs as, Central Canada, Canadian National, Western Fair and Woodstock Fair, consisted of extensive mounted-in-glass specimens, large pictures and photographs of parasitised animals, and charts. Mechanical devices were used as an aid to display exhibit material. Considerable time was given to the construction of these exhibits and their operation. At the five smaller fairs, the twenty-one school fairs and the six plowing matches attended, a specially constructed portable exhibit was made up, so that it could be mounted on a truck or car. Specially constructed charts, pictures in special mounts for out-door display, and glass mounts, were prepared for this type of fair. These mounted-on-truck exhibits, were very well received by fair directors and the visiting farmers. A direct contact was made with the stock owners as the exhibits were set up in the livestock section of the fair, where the attendant could discuss with the stock owner, the parasitic and disease problems.

A poultry parasite and disease survey was made in the County of Elgin, in co-operation with the Agricultural Representative for that county. This survey occupied the time of one assistant for five weeks. A high percentage of the flocks were found to be parasitised.

The Laboratory Work of this Branch consisted of the following activities:

The examination of animals sent in for diagnosis.
The examination of fecal matter.
The examination of tissue.
The postmortem of animals brought in.
The mounting of specimens collected in field or abattoir.
The making of charts and other illustrating material.
Preparing exhibition equipment.

THE ONTARIO MARKETING BOARD

The creation of the Ontario Marketing Board marks a new and unexplored step in modern agriculture. No similar body exists or functions in any branch of that industry to-day.

The appointment of the Board in the spring of 1931 grew out of the experience and observation of Colonel The Hon. T. L. Kennedy, Minister of Agriculture. When approached to assume the direction of the Department, Colonel Kennedy spent some months considering the problem involved. To his own knowledge and experience he added thereto by extensive travel throughout the Province asking questions and summarizing conditions. Out of the need he saw for leadership and showing farmers how to sell their products grew the idea of the Marketing Board. Too many people in business are engaged in making money out of the farmer. Too few have any idea of helping him to make money, forgetting that if in the long run the farmer fails the rest of commerce and industry also fails. Every effort of the Marketing Board will be devoted to finding new and wider markets at home and abroad, to improving selling and distributing systems now in use and in every way possible returning to the farmer a higher cash return for his products.

The Ontario Marketing Board's work is not paternalistic. It is not proposed to do the producers' work for him. The Board hopes to point out to producers what they can do to correct unfair and uneconomic practices in their industry and to help them organize themselves for this purpose. But producers must do the actual work of organizing and in these activities, apart from assistance in getting started, they must be self-supporting. Assisting organizations with plans for price control of farm crops, however, is not contemplated by the Board.

While the Marketing Board has only been in existence some six months it has undertaken to deal with all problems as they arose or have been referred to it. The major part of this period, however, has been put to studying the whole agricultural situation with a view to developing a comprehsnsive programme for the Board to follow. This policy is now being worked out and is gradually taking shape.

Some idea of the field for effort along marketing lines can easily be seen if one considers present conditions surrounding the milk products industry, the bacon and hog industry, the meat producers' problems, egg and poultry marketing. Many other agricultural problems are also involved in our fruit and vegetable crops, our tobacco-growing industry, cash crops, honey and maple products and the wild products of our undeveloped northern districts.

Meanwhile the Board has been able to make definite contributions to the progress of agriculture in a number of important matters. Following is a brief description of some of these activities.

Ontario Growers' Markets Council

The fruit and vegetable growers of the Province, the Board feels, are well started on the way toward solving their marketing problems. On the initiative of the Board they have established a Growers' Markets Council which is the outcome of an inquiry into fruit and vegetable marketing conditions authorized by the Minister of Agriculture a year ago. Commercial fruit and vegetable growers in every district in Ontario are represented on the directorate of this Markets Council which has offices established in Hamilton, Ontario.

Committees are now studying every phase of fruit and vegetable marketing such as local market conditions and prices, opportunities on export markets, research in producing by-products from lower grades of produce and the collective bargaining for fertilizers, packages and supplies, the establishment of central packing and cold storage plants, the designation of Ontario's high-grade products protected by brands and trademarks and the inauguration of an intelligent publicity programme designed to tell home and export markets what Ontario has for sale.

Handicapped by a late start in the season the record of the Growers' Council for work accomplished in the first six months of its existence is an enviable one.

Over five times the amount of Ontario produce normally shipped to the Martimes was marketed there this year.

Similar results were obtained also in Western Canada. Valuable ground work has been done in developing Northern Ontario markets for future trade outlets. Notable progress has been made in giving outside markets the class and quality of products required packed as they wanted it through extension of central packing and cold storage facilities. Nothing will do more to raise the quality and standard of Ontario produce than will a chain of central packing and cold storage plants across the Province. Five new plants were erected this year through co-operation with the Provincial Fruit Branch and working under the cold storage plan approved by the Minister of Agriculture. The Growers' Council took a distinctive forward step this year in establishing an Ontario quality brand and forwarding the idea of compulsory inspection on export shipments. In building up consumer preference a Big "O" Brand for apples shipped to the Old Country was established and even higher grades enforced than those required under the Dominion Fruit Act. Compulsory inspection on all grape movements this year out of the Province and crop sold under the newly established brand was asked for and carried through by the Fruit Branch at Ottawa. This step in the opinion of the Growers' Council is but a forerunner to a more general movement when all Ontario produce will be sold on grade and under brand with compulsory inspection for quality.

Cold Storage

A cold storage programme embracing as far as could be estimated the needs of the Province on apples and fruits for the next five years was drawn up early in 1931 by the Marketing Board.

Estimating the average Ontario apple crop at 750,000 barrels, the Board recommended that plans be made to take care of half this quantity in grower-owned cold storages at point of production throughout Ontario. The balance it was believed could be taken care of in common storage, terminal cold storage, farm storage or by movement to market early in the season.

In line with this policy and with both Federal and Provincial assistance, cold storage facilities are now completed which will take care of 175,000 barrels annually in the Province. New cold storages, modern in every degree, have been built this year at Picton, Strathroy, Trenton and Thornbury, while the capacity of the Simcoe plant has been doubled and assistance given to the plant at Grimsby. These new storages saved the apple-growing interests this last season more than their capital cost estimated at over $600,000.

LOWERED OCEAN FREIGHT RATES ON APPLES

Early in the apple exporting season ocean rates on Nova Scotian apples were lowered to 70 cents per barrel from Halifax to United Kingdom and continental ports. This rate compared with an old rate of 80 cents per barrel to United Kingdom ports and $1 per barrel to continental ports.

While Nova Scotia enjoyed this lowered rate Ontario shippers still had to pay an 80 cents per barrel rate from Montreal to United Kingdom ports and 90 cents to continental ports. The reason given by the shipping companies for reducing the Maritimes rate was owing to the growing practice of Nova Scotian growers chartering tramp steamers at a lower rate which was doing considerable harm to regular line business.

The apple market was exceedingly low this year and to sell at all it was necessary to cut prices to the lowest cent. These have been reduced to the point where it was impossible to go any lower and to have to absorb an extra difference of twenty cents in the ocean rate made competition with Nova Scotian supplies manifestly out of the question.

Feeling the Canadian Transatlantic Conference was unjustly discriminating against Ontario apple producers the Board moved to secure parity rates for Ontario with Nova Scotia. An immediate concession for Ontario producers was gained in a 10-cent lowered rate from Montreal to Antwerp and permission to ship through Halifax at the prevailing rates there. This in itself was the means of saving many thousands of dollars to Ontario apple producers, in confirming orders threatened with cancellation.

ONTARIO APPLE CIDER

Experimental work on apple cider production initiated by the Dominion Government in Great Britain and carried on in Ontario on the recommendation of the Marketing Board has resulted in the undertaking of two large commercial plants which should be in full operation next year. These will take care of low grade apples and return to growers fair prices for this class of fruit as well as keeping undesirable supplies off local markets. In this way prices for quality fruit will be better and a higher volume maintained.

MARKETING THE 1931 GRAPE CROP

The 1931 season opened with every indication of complete disaster for the grape-growing industry. A large crop, variously reported as from 24,000 to 30,000 tons, was ripening rapidly. Without warning the industry learned that owing to unusually large stock carryovers the wineries, who heretofore had provided a market for three-quarters of the total grape crop, would not need more than seven thousand tons this year.

Many plans were put forward, the most general being that the Government step in and fix the price of grapes at about $40 per ton. The Marketing Board asked to advise on the matter took the stand that the idea of a fixed price for grapes was a dangerous one. It would relieve the grower of the necessity of getting out to find new markets and developing their trade. It would tend also to remove a restraint from largely increasing present plantings and it would create an unnatural situation that would have to be abandoned when the fixed price was removed, thus leaving the growers more helpless than before.

The natural way the Board felt was to settle upon the growers directly the responsibility of holding up the winery price (based on the average of the market basket price) by developing their fresh fruit trade in Western and Eastern Canada. This they could do now more easily under the new tariff conditions and with the sales organization of the Growers' Markets Council established in Western Canada, Northern Ontario and the Maritimes. Other factors came in for consideration in connection with the problem such as the question of wine standards, the matter of imported concentrated grape juice and the use of advertising as an extra means of coping with an abnormal situation.

Wine standards were taken up first and after extensive negotiation, initiated by the Board, revised regulations respecting the manufacture of wine were given authority by the Dominion Government and implemented by Provincial authorities. These provide that not more than 250 gallons of wine may be made from a ton of grapes and also that fruit spirits instead of cane sugar be used in wine-making. It is anticipated these regulations will increase the wineries requirements for grapes by 25 per cent. and should do much to stabilize the market in future years as well as appreciably improve the quality of Ontario wine.

Recommendations have been made that research be carried on for the purpose of improving existing wine standards thus further assisting the industry and that an experimental laboratory at Vineland, Ontario, be established where wide experiments would be carried on in grape culture and wine manufacture.

The pressing matter, however, was to dispose of this year's crop to best advantage. This it was realized could only be done by reviving the fresh fruit markets for grapes which had been ignored in past years due to the easy outlet offered by the wine industry. To meet the situation the services of the commercial representatives of the Ontario Growers' Markets Council were recruited for sales promotion efforts in Western and Eastern Canada. Their work was implemented by a national grape advertising campaign in which the Ontario Growers' Markets Council, the Canadian Horticultural Council and the Dominion Department of Trade and Commerce co-operated. Funds for the campaign were raised by growers, and through distributors and basket manufacturers while the Department of Trade and Commerce also generously assisted. To aid the movement Dominion Government compulsory inspection on all grape movements outside the Province was applied. This, coupled with the use of the new Big "O" Brand, which was tied up with radio and newspaper advertising as well as basket inserts, materially assisted sales.

The net result aided by a favourable tariff was an unprecedented distribution of fresh grapes throughout Canada. Sales in the Maritimes were treble that of any previous volume. Winnipeg and Western Canada took over four hundred cars of grapes as against forty the previous year. In Ontario and Quebec some three hundred cars were sold. Prices were low, lower than need be, owing largely to the lack of effective organization among the grape growers and to general panic conditions which prevailed this year in the marketing of all farm crops. The important point, however, is that for the first time grape growers sold practically their entire crop on the fresh fruit market. This should encourage them to cultivate and develop these markets in order to extend the distribution of grapes, which will automatically improve their position with the wine industry.

Comparing Ontario conditions with those in New York State where one-third of the grape crop was not harvested at all and the return to the growers ran about $10.00 per ton it is conservatively estimated that the existence of the Ontario Growers' Markets Council saved the grape growers of Ontario over half a million dollars this year.

MILK PRODUCTS INQUIRY

Prosperous dairying in Ontario is essential to prosperous agriculture. Dairy farmers in this Province, however, are experiencing serious curtailment in the expansion of their industry. Cheese prices, which set the returns to dairy farmers on all forms of manufactured milk, are lower now than they have been for decades past. Should these declines continue it is fair to assume that the prosperity of the whole dairy structure will be threatened. Yet out of the mass of information gathered to date it is definitely shown that there is not too much milk production in this Province. In fact under a proper marketing policy a great deal more milk could be produced to advantage than is done at present.

In an effort to cope with the situation the Board had instituted investigations into the five broad divisions of modern dairying: cheese, butter, manufactured milk, fresh milk, and dairy cattle. Far-reaching conclusions for recommendation to the cheese interests, the most important division in the group, are already arrived at and reports on the other phases will be prepared as quickly as possible. These various conclusions will then be co-ordinated into one report, thus presenting an accurate summary of the marketing problems of the milk products industry. Immediately this report is completed and laid before all the dairy producing interests of the Province assistance and advice will be offered milk producers by the Board in an effort to enable them to solve these marketing problems for themselves. It is planned that this investigation and more particularly the carrying out of the suggested recommendations will be one of the main activities of the Marketing Board for the coming year.

TOBACCO

The comparatively young industry of tobacco prodution in this Province has grown by leaps and bounds. Production for the current year over 1930 is indicative of the rapid development in tobacco growing. Preliminary estimates show a crop of about 40,000,000 pounds as compared with 26,000,000 in 1930. Almost all of this increase has taken place in the Norfolk, Elgin and Oxford district.

While production and quality were unexcelled returns to grower remained highly unsatisfactory. The principal reason for this seems to lie in the fact that growers were not prepared to take care of the surplus produced over and above previous years and the export trade, still an uncertain factor and aided by the high adverse exchange rate, could not help relieve the situation. One suggested way out seems to be the establishment of sufficient grading and packing plants where growers could have their tobacco packed and graded on commission. With tobacco properly graded and available for inspection of buyers, especially European, trade with the Old Country could be largely stimulated. With such a competitive factor established and developed, the export trade should be capable of stabilizing the price of tobacco for Canadian consumption with resulting profit to Ontario growers.

Further investigation on tobacco production is being carried out by the Board with a view to recommending dependable marketing plans to growers in the effort to prevent another disastrous selling season.

HONEY

On the request of the Honey Producers' Co-operative Limited, an investigation is being made into the acute marketing difficulties that associations are facing at the present time. This inquiry has resulted in recommendations to the Co-operative which will in all probability alter their methods of merchandising the Ontario honey crop.

Experiments in the marketing of honey both at home and abroad have demonstrated attractive possibilities and it would seem that the period of large unsold supplies and low prices should not long continue.

RUTABAGAS

(Finest Table Turnips)

To test out local market possibilities the Marketing Board sponsored a demonstration in Toronto of the finest quality table turnip procurable. Arrangements for distribution by chain and retail stores in the city were made through a local distributing agent. Highest quality rutabagas obtainable were secured, washed, individually branded and sold in special open-mesh bags. Two brands, the Tip Top and the Big "O" Brands already established for other Ontario fruits and vegetables, were used and the rutabagas under these auspices scored an instant success on the Toronto market. Prices are satisfactory and growers are receiving considerably higher returns than for the ordinary run of turnips. With the success of the experiment in Toronto arrangements are being made to extend the project to other cities and towns in the Province. Through this work it is anticipated that before long those who are not acquainted with the rutabaga have a treat in store, a dish free from bitterness, stringiness and other undesirable characteristics of poor turnips.

While the Ontario Marketing Board is a governmentally appointed body, having no control over any growers' organization, it plans to assist every branch of agriculture by attempting to solve its marketing and distribution problems. However, to be permanently successful each branch of the industry must stand on its own feet and be self-supporting and self-governing, just as the fruit and vegetable groups is now becoming. The time is past when farmers can confine themselves to a solution of their production problems alone. They must also determine and carry out the marketing policies necessary to continuous and improving prosperity.

Ontario Department of Agriculture

ANNUAL REPORT

OF THE

STATISTICS BRANCH

1931

PART I.—AGRICULTURAL STATISTICS
PART II.—CHATTEL MORTGAGES

PRINTED BY ORDER OF
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Ontario Department of Agriculture
Statistics Branch

PART I — AGRICULTURAL STATISTICS

Crop production in Ontario, owing chiefly to climatic conditions, was slightly below the aggregate yield of 1931, but highly satisfactory. This record is noteworthy in face of the drastic decline in prices which reduced agricultural incomes in 1929 and 1930. Prices during the year continued downward, and particularly in the case of animal products. Live hogs W.O.C. Toronto, declined from an average price of $10.19 per cwt. in January to an average of $4.81 in December. The wholesale price of butter in June was 22.5c compared with 31c a year earlier, and eggs sold for 21.6c in June as against 33c twelve months previous.

Although the gross value of agricultural output was reduced by $111,000,000 from the previous year, the value of farm production ($305,624,000) was an important factor in sustaining purchasing power and prevented business in Ontario from falling to the low levels experienced elsewhere.

The figures in this Report have been adjusted as far as possible, to bring them into line with the available results of the Decennial Census conducted in 1931. The Decennial Census is in this way made complementary to the annual estimates and serves as a base for the estimates during the following ten-year period. For this reason a comparison with the figures of the previous year is not strictly valid.

A table showing the gross value of agricultural production in Ontario during the years 1929, 1930 and 1931, as compiled by the Dominion Bureau of Statistics with the co-operation of this Branch, is given below:

ESTIMATED GROSS ANNUAL AGRICULTURAL REVENUE OF ONTARIO

	1929	1930	1931
Field Crops	$241,778,000	$179,919,000	$124,541,000
Farm Animals	76,022,000	60,738,000	33,175,000
Wool	1,323,000	632,000	458,000
Dairy Products	115,757,000	104,859,000	92,276,000
Fruit and Vegetables	19,208,000	16,820,000	14,412,000
Poultry and Eggs	44,773,000	41,461,000	29,491,000
Fur Farming	777,000	817,000	750,000
Maple Products	1,258,000	1,576,000	1,674,000
Tobacco	5,039,000	6,244,000	6,814,000
Flax Fibre	393,000	371,000	179,000
Clover and Grass Seed	1,672,000	1,855,000	1,110,000
Honey	1,208,000	870,000	744,000
Total	$509,208,000	$416,162,000	$305,624,000

TEMPERATURE.—The following table gives the temperature of the Province for each month during the last five years, together with the mean annual temperature for the six months, April–September, practically the growing season, together with the average for the five years, 1927–1931, and fifty years, 1882–1931.

Months	1931	1930	1929	1928	1927	1927–1931	1882–1931
	°	°	°	°	°	°	°
January	19.9	17.8	16.3	20.4	17.8	18.4	17.9
February	22.9	22.5	16.5	18.8	23.2	20.8	17.3
March	30.6	28.0	33.7	26.6	33.4	30.5	27.7
April	43.0	41.1	43.4	38.9	42.2	41.7	41.8
May	54.6	55.9	51.4	52.5	51.9	53.3	53.5
June	63.8	65.7	61.8	60.6	59.5	62.3	63.3
July	71.8	67.6	67.0	68.3	66.9	68.3	67.3
August	67.7	66.9	63.6	68.4	62.6	65.8	65.8
September	63.8	60.9	60.5	55.8	61.7	60.5	59.3
October	51.9	47.2	46.5	49.5	51.1	49.2	47.6
November	43.6	38.4	34.1	36.8	37.8	38.1	35.6
December	30.0	25.0	20.6	28.6	24.7	25.8	23.6
Annual Mean	47.0	44.8	43.0	43.8	44.4	44.6	43.4
Mean for six months April–September	60.8	59.7	57.9	57.4	57.5	58.6	58.5

The mean temperature for 1931 was 47.0 degrees or 2.2 degrees higher than preceding year, and 3.6 degrees above the normal of the fifty years, 1882–1931.

The mean of the six months, April–September, was 60.8 or 1.1 degrees above preceding year and 2.3 degrees higher than the fifty year normal.

The twelve months were above normal ranging from 0.5 degree above in June to 8.0 degrees in November.

SUNSHINE.—In the following the averages of sunshine are derived from the records of the weather stations at Woodstock, Toronto, Lindsay, Kingston and Ottawa.

Months	Sun above horizon	1931	1930	1929	1928	1927	1926–1931	1882–1931
	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	285.7	84.0	71.6	90.2	63.2	84.8	78.8	77.6
February	291.4	111.3	91.5	98.4	112.1	77.1	98.1	103.6
March	369.9	113.0	128.7	110.2	139.8	145.4	127.4	143.7
April	406.4	193.2	172.3	135.7	166.4	215.2	176.6	181.2
May	461.1	231.1	221.5	214.7	215.7	160.7	208.7	213.8
June	465.7	266.9	246.2	248.9	206.9	279.4	249.7	248.6
July	470.9	248.9	295.0	293.4	258.1	256.3	270.3	268.6
August	434.5	236.6	239.0	247.4	258.4	250.5	246.4	240.9
September	376.3	189.7	176.0	180.5	172.7	192.3	182.2	183.4
October	340.2	165.3	144.8	121.8	127.9	163.9	144.8	138.9
November	286.9	76.5	82.2	77.8	68.8	51.9	71.4	77.4
December	274.3	79.9	52.8	35.2	70.2	59.4	59.5	62.2
For year	4463.3	1996.4	1921.6	1854.2	1860.2	1936.9	1913.9	1939.9
For six months April-September	2614.9	1366.4	1350.0	1320.6	1278.2	1354.4	1333.9	1336.5

The year 1931 had 1,996.4 hours of sunshine, 56.5 hours more than average for the last fifty years. The six growing months, April–September, had 1,366.4 hours or 29.9 hours more than average. Eight months were above normal and four below. October had the greatest departure above with 26.4 hours and March the greatest below normal with 30.7 hours.

PRECIPITATION.—The fall of both rain and snow for the five winter months including November, 1930, and March, 1931, is given in the following table for five years, together with the annual for the fifty years, 1882–1931. Ten inches of snow is equivalent to one inch of rain.

Months	1931	1930	1929	1928	1927	1927–1931	1882–1931
	in.	in.	in.	in.	in.	in.	in.
November, 1930:							
Rain	1.07	2.18	2.31	3.85	3.14	2.51	1.98
Snow	9.6	9.6	5.9	8.3	13.8	9.4	7.4
December, 1930:							
Rain	0.39	0.34	0.74	1.52	0.26	0.65	1.20
Snow	11.7	26.0	10.7	17.4	17.1	16.6	15.3
January, 1931:							
Rain	0.09	1.51	1.95	0.49	0.34	0.88	0.89
Snow	20.2	18.7	25.3	19.4	13.9	19.5	19.0
February, 1931:							
Rain	0.22	0.74	0.19	0.74	0.26	0.43	0.70
Snow	10.4	11.8	11.6	12.1	19.0	13.0	15.5
March, 1931:							
Rain	0.61	1.11	2.13	0.84	0.99	1.13	1.18
Snow	14.9	12.2	10.3	17.7	5.9	12.2	10.8
Five Months:							
Rain	2.38	5.88	7.32	7.44	4.99	5.60	5.95
Snow	66.8	78.3	63.8	74.9	69.7	70.7	68.0

The total amount of rainfall for the five months was 2.38 inches or 3.57 inches below the average of the fifty years, 1882–1931. The total amount of snowfall was 66.8 inches or 1.2 inches below normal.

The rainfall for the six months, April–September, comprising what is regarded as the growing season for most crops, is given in the following table covering the last five years, 1927–1931, and the normal for the fifty years, 1882–1931.

Months	1931	1930	1929	1928	1927	1927–1931	1882–1931
	in.	in.	in.	in.	in.	in.	in.
April	1.87	1.49	3.81	1.97	1.19	2.07	1.88
May	2.48	2.92	3.08	1.71	3.92	2.82	2.74
June	2.17	4.01	2.00	3.94	2.94	3.01	2.83
July	3.47	2.44	2.94	4.28	4.36	3.50	2.90
August	1.78	1.58	1.55	3.66	1.94	2.10	2.62
September	4.07	2.29	1.90	3.27	2.33	2.77	2.73
Total for six months	15.84	14.73	15.28	18.83	16.68	16.27	15.70

The rainfall for the six months, April–September, was 15.84 or 1.11 above the preceding year, and in comparison with the fifty years 0.14 above. Two months were above average and four below. September with 1.34 inch above and August 0.84 below had the greatest departures during the growing season.

STATISTICS OF FARM CROPS, 1931

Field Crops	Acres	Production	Bushels per acre	Market Value	
				Total	Per acre
		bush.	bush.	$	$ c.
Fall wheat	525,024	15,013,455	28.6	7,747,787	14.76
Spring wheat	99,183	1,982,594	20.0	1,008,547	10.17
Oats	2,330,128	77,979,490	33.5	19,499,057	8.37
Barley	437,588	13,407,038	30.6	4,898,775	11.19
Peas	58,944	972,832	16.5	608,586	10.32
Beans	76,312	1,184,172	15.5	685,934	8.99
Rye	61,701	1,104,754	17.9	462,594	7.50
Buckwheat	178,719	3,665,584	20.5	1,551,607	8.68
Flax	7,325	79,555	10.9	83,812	11.44
Corn (in the ear)	123,960	8,151,239	65.8	2,157,322	17.40
Potatoes	168,158	20,026,501	119.1	4,735,770	28.16
Carrots	3,179	436,517	137.0	43,652	13.73
Mangels	32,399	11,855,500	366.0	1,185,550	36.59
Turnips	68,323	23,489,120	344.0	2,348,912	34.38
Sugar Beets	35,258	13,105,869	372.0	1,965,880	55.76
Mixed grains	1,012,347	35,155,615	34.7	12,510,754	12.36
		Tons	Tons		
Corn (for silo), green	264,286	2,301,527	8.71	9,206,108	34.83
Hay and clover	2,858,923	4,615,372	1.61	38,906,045	13.61
Alfalfa	431,110	971,304	2.25	9,816,770	22.77
Alsike	97,128	152,516	1.57	1,276,341	13.14
Sweet clover	306,067	669,446	2.19	4,519,783	14.77
Totals: 1931	9,176,062	....	.....	125,219,586	13.65
" 1930	10,009,097	....	.....	173,498,548	17.33

The acreages devoted to other crops in 1931 were as follows:—Orchards, 203,231; strawberries, 8,012; vineyards, 15,793; other small fruits, 14,206; summer fallow, 221,174; pasture (cleared), 3,039,026.

Tobacco.—It is estimated that 47,360 acres were grown in tobacco in 1931, yielding 44,770,000 pounds, or 945 per acre. Of this, Elgin had 3,700 acres, Essex 12,900, Kent 9,100, Norfolk 18,700 and Oxford 2,500.

Rape.—The estimate for 1931 was 13,527 acres of which 3,911 are in Wellington, 2,071 in Grey and 1,769 in Dufferin.

TEMPERATURE, 1931

TABLE I.—Showing for each month the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario for 1931; also the annual mean for each station.

Months	Southampton	Chatham	London	Woodstock	Vineland	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
	°	°	°	°	°	°	°	°	°	°
January:										
Highest	40.0	47.0	43.0	41.0	44.0	44.8	39.1	38.0	38.0	34.0
Lowest	0.1	4.0	2.0	−4.0	6.0	−0.4	−19.9	−24.0	−20.5	−37.0
Daily range	13.7	13.9	12.5	14.0	13.1	13.4	18.3	19.3	16.6	28.0
Monthly mean	24.5	27.6	23.8	22.3	27.2	24.9	16.7	14.2	12.9	5.1
February:										
Highest	41.5	55.0	44.0	38.5	43.0	42.8	37.6	37.0	44.0	39.0
Lowest	−4.7	14.0	2.0	−5.0	2.0	−0.4	−19.5	−26.0	−16.0	−32.0
Daily range	14.9	14.6	14.1	14.5	13.4	13.2	22.8	22.4	20.7	29.0
Monthly mean	23.6	32.2	26.8	24.2	29.4	26.6	19.8	18.0	17.6	10.7
March:										
Highest	46.5	57.0	51.0	48.0	54.0	48.2	49.6	47.0	55.0	52.0
Lowest	10.7	18.0	17.0	15.0	16.0	18.8	2.1	5.0	7.5	−17.0
Daily range	12.2	13.1	12.6	10.6	9.1	10.7	15.7	17.4	16.2	26.1
Monthly mean	29.4	33.9	32.3	29.9	33.6	33.4	29.7	27.9	34.0	21.7
April:										
Highest	72.0	79.0	78.2	74.5	81.0	78.2	77.8	76.0	81.5	78.0
Lowest	22.2	26.0	28.4	26.0	28.0	28.4	20.7	18.0	24.5	−4.0
Daily range	18.4	21.3	22.0	18.9	18.5	17.4	23.1	21.7	22.5	28.7
Monthly mean	41.1	48.0	44.7	42.9	45.0	44.8	42.6	39.6	45.8	35.2
May:										
Highest	85.7	88.0	87.0	81.5	87.0	83.8	85.7	84.0	89.0	88.0
Lowest	29.1	31.0	27.0	27.0	29.0	30.0	23.0	22.0	27.0	17.0
Daily range	19.0	23.5	23.1	19.4	21.1	20.0	24.9	24.8	21.9	33.2
Monthly mean	52.4	57.3	55.4	54.8	55.6	55.9	54.9	53.2	56.6	50.0
June:										
Highest	89.5	95.0	90.9	90.0	92.0	90.9	93.9	92.0	94.0	96.0
Lowest	35.1	40.0	43.0	40.0	44.0	43.0	37.5	31.0	43.5	27.0
Daily range	21.0	23.2	24.0	18.6	21.8	19.6	27.1	28.6	22.0	36.5
Monthly mean	61.5	67.4	65.1	63.6	66.1	65.9	64.1	60.7	65.5	58.2
July:										
Highest	92.0	100.0	99.0	94.0	101.0	98.4	102.7	98.0	101.0	101.0
Lowest	50.3	54.0	50.0	51.0	55.0	54.4	48.6	42.0	55.0	40.0
Daily range	18.0	22.2	22.1	17.7	19.0	18.2	23.4	24.7	22.1	30.7
Monthly mean	70.0	76.2	73.2	71.1	75.1	73.6	71.2	68.0	73.5	66.5
August:										
Highest	89.2	100.0	96.0	90.0	95.0	91.9	93.6	89.0	99.0	93.0
Lowest	44.5	45.0	40.0	41.0	52.0	46.2	41.1	41.0	50.0	33.0
Daily range	19.2	23.2	22.3	20.8	18.4	17.8	23.6	23.7	24.6	32.0
Monthly mean	66.4	72.5	69.0	68.7	70.5	69.4	66.8	64.1	70.2	59.7
September:										
Highest	91.8	98.0	95.0	91.0	96.0	95.6	97.3	93.0	101.5	91.0
Lowest	35.6	41.0	32.0	38.8	42.0	41.8	33.0	27.0	39.0	27.0
Daily range	19.9	20.5	22.6	17.9	19.9	18.7	23.0	24.6	22.7	27.1
Monthly mean	63.3	69.1	65.8	64.0	68.1	66.0	62.6	59.4	64.3	55.0
October:										
Highest	78.2	85.0	80.0	76.0	81.0	77.2	79.6	77.0	82.0	77.0
Lowest	31.6	34.0	30.0	29.8	33.0	34.3	26.0	20.0	30.5	21.0
Daily range	17.3	19.9	20.3	16.1	17.8	15.9	22.5	21.6	20.8	24.1
Monthly mean	52.6	57.2	52.7	51.8	55.7	53.1	50.5	47.7	52.2	45.7
November:										
Highest	69.5	73.0	69.0	68.0	71.0	66.4	64.6	66.0	67.0	62.0
Lowest	23.6	25.0	24.0	26.5	26.0	28.4	19.1	15.0	18.0	13.0
Daily range	13.2	15.2	15.1	11.4	14.5	12.0	21.3	16.7	16.8	16.7
Monthly mean	44.9	48.0	44.3	44.2	47.8	45.8	44.1	39.6	41.1	36.4
December:										
Highest	46.5	61.0	53.0	52.0	55.0	50.8	45.7	44.0	48.5	42.0
Lowest	9.2	14.0	17.0	2.0	18.0	10.5	−6.8	−16.0	−1.5	−16.0
Daily range	11.6	12.4	11.8	10.3	13.3	11.0	17.7	16.9	15.2	19.4
Monthly mean	31.3	36.9	32.9	31.9	35.7	33.3	26.8	24.0	23.9	19.9
Annual mean	46.8	52.2	48.8	47.4	50.8	49.4	45.8	43.0	46.5	38.7

AVERAGE TEMPERATURE FOR FIFTY YEARS

TABLE II.—Showing for each month the monthly average for the highest, lowest, mean daily range and mean temperature at the principal stations in Ontario, derived from the fifty years, 1882-1931; also the annual mean at each station for the same period.

Months	Southampton	Chatham	London	Woodstock	Vineland	Toronto	Lindsay	Beatrice	Ottawa	Montreal River
January:	°	°	°	°	°	°	°	°	°	°
Highest	43.9	46.2	45.5	45.2	49.0	45.1	41.3	40.5	40.3	37.9
Lowest	−7.4	−7.4	−9.4	−10.3	−4.6	−6.9	−20.1	−27.5	−21.4	−34.5
Daily range	14.4	12.5	15.0	15.4	14.4	14.4	18.1	20.5	17.8	24.5
Monthly mean	20.7	22.0	11.4	20.1	24.6	22.5	15.8	13.8	11.5	5.9
February:										
Highest	43.7	49.2	46.4	45.2	47.7	45.0	41.8	41.7	40.5	41.0
Lowest	−11.3	−7.4	−9.8	−10.0	−4.9	−6.5	−17.6	−26.6	−19.8	−34.2
Daily range	16.6	14.1	16.5	16.2	15.2	15.0	19.6	32.0	17.0	24.9
Monthly mean	19.0	21.8	20.8	19.6	23.3	21.7	15.8	18.7	13.0	8.7
March:										
Highest	54.7	60.3	60.0	57.2	60.5	57.0	53.2	51.2	50.2	51.5
Lowest	−2.1	2.1	1.1	0.6	6.2	4.9	−6.1	−12.4	−7.0	−22.7
Daily range	16.7	15.5	17.5	16.5	15.1	14.6	18.7	20.6	17.5	25.4
Monthly mean	27.2	31.1	30.4	28.6	32.7	30.4	26.0	23.9	25.0	20.4
April:										
Highest	72.4	77.5	76.6	74.4	76.8	71.5	74.1	71.2	73.8	72.3
Lowest	15.9	19.3	18.6	17.8	20.8	21.1	14.0	10.2	15.3	4.4
Daily range	17.6	18.7	20.8	19.7	17.7	16.9	21.1	21.2	19.4	24.5
Monthly mean	40.2	44.3	43.5	42.2	44.1	42.8	41.4	39.1	41.3	37.6
May:										
Highest	79.8	83.8	83.6	80.7	84.7	80.8	83.1	80.9	83.3	84.4
Lowest	28.3	29.8	29.2	29.2	32.7	32.0	27.6	26.0	31.0	19.5
Daily range	19.4	21.4	23.2	21.6	20.5	19.2	24.2	23.2	21.9	26.6
Monthly mean	50.7	55.5	55.1	53.5	54.4	53.9	53.7	51.8	54.8	51.1
June:										
Highest	85.2	89.6	89.4	86.5	91.1	88.0	89.1	86.6	88.4	90.1
Lowest	37.2	38.6	38.1	38.3	41.1	42.0	37.9	35.3	41.6	33.1
Daily range	19.9	21.9	23.5	22.0	21.4	20.4	24.9	24.3	21.6	27.7
Monthly mean	60.3	65.2	64.8	63.2	65.1	64.1	63.4	61.7	64.6	61.1
July:										
Highest	87.4	93.3	92.9	89.5	92.9	91.5	91.9	89.5	91.2	92.0
Lowest	44.0	44.9	44.2	44.5	48.1	48.8	43.8	41.9	48.2	39.7
Daily range	19.9	22.3	23.4	22.2	21.5	20.4	24.7	23.6	20.9	26.3
Monthly mean	66.0	70.0	69.5	67.7	71.0	69.3	67.8	66.2	68.9	65.2
August:										
Highest	85.9	91.4	91.3	88.3	92.8	89.2	89.9	87.3	89.0	88.4
Lowest	41.9	43.3	41.0	41.7	45.8	46.6	40.4	37.8	44.0	36.4
Daily range	18.3	21.5	23.7	23.0	21.2	21.6	24.4	23.2	21.0	25.6
Monthly mean	64.5	67.9	66.9	65.2	68.8	66.3	65.4	63.8	66.2	62.2
September:										
Highest	84.3	88.3	87.4	84.9	89.4	85.7	85.6	83.1	85.0	83.5
Lowest	34.5	35.1	32.3	32.6	36.2	36.9	31.8	30.1	33.6	28.8
Daily range	18.2	20.1	22.4	21.2	20.5	18.7	22.9	21.7	20.7	23.7
Monthly mean	59.2	62.0	60.9	59.3	62.6	60.7	58.4	57.2	58.6	54.9
October:										
Highest	74.7	77.1	76.4	74.4	77.6	73.9	74.5	72.6	72.8	73.1
Lowest	25.9	26.7	24.4	24.3	26.6	27.4	21.6	20.8	24.5	17.7
Daily range	16.1	17.5	20.1	18.6	18.6	16.4	20.1	18.9	17.7	19.9
Monthly mean	48.2	50.1	48.6	47.4	50.7	48.9	46.4	45.5	46.2	43.0
November:										
Highest	61.4	63.7	62.3	61.4	65.2	60.8	59.6	58.7	58.7	55.5
Lowest	14.5	15.0	13.5	12.5	17.7	16.0	6 6	5.8	7.5	−1.3
Daily range	13.1	12.6	14.4	14.1	13.9	12.7	15.3	14.6	12.6	15.2
Monthly mean	36.9	38.1	37.1	35.9	39.7	37.9	34.0	33.2	33.1	29.2
December:										
Highest	48.8	50.2	52.1	49.0	53.2	48.8	45.4	44.4	43.1	42.9
Lowest	0.9	1.3	−1.0	−2.2	0.4	0.4	−12.3	−15.3	−14.0	−24.7
Daily range	12.4	10.8	13.1	13.0	12.6	12.4	15.8	16.9	14.6	19.4
Monthly mean	26.7	27.2	26.5	25.2	29.2	27.6	21.5	20.3	18.2	14.0
Annual mean	43.3	46.3	44.6	44.0	47.2	45.5	42.5	41.3	43.4	37.8

RAIN AND SNOW

TABLE III.—Summary of the total fall of rain and snow and the number of days on which rain and snow fell in Ontario during 1931, at stations reporting the whole year, and the average of the Province.

Stations	Rain		Snow	
	Inches	Days	Inches	Days
ALGOMA:				
Biscotasing	21.93	73	68.9	44
Franz	23.07	88	58.5	36
Kapuskasing	23.67	95	80.0	52
Steep Hill Falls	25.33	76	125.7	38
BRANT:				
Paris	31.71	120	45.0	27
BRUCE:				
Southampton	25.29	109	72.6	57
Tobermory	20.83	56	46.5	12
Wiarton	27.02	70	83.0	28
Walkerton	26.72	88	45.9	26
CARLETON:				
Ottawa	17.45	102	58.0	47
DUNDAS:				
Morrisburg	21.06	78	64.4	43
DURHAM:				
Orono	22.84	88	48.6	26
ELGIN:				
St. Thomas	31.50	101	32.5	24
ESSEX:				
Harrow	15.56	91	20.0	13
Leamington	27.58	70	19.0	10
FRONTENAC:				
Kingston	27.75	112	34.3	39
GREY:				
Eugenia	22.06	65	56.1	31
HASTINGS:				
Belleville	25.12	105	42.1	24
Queensboro	19.64	95	76.0	17
Trenton	23.12	88	67.6	25
HURON:				
Brucefield	28.23	78	45.9	30
Ridgecrest	24.74	88	49.8	30
KENORA:				
Ignace	20.28	71	75.0	21
KENT:				
Chatham	25.52	66	25.5	14
LEEDS:				
Brockville	23.27	63	52.0	21
LINCOLN:				
St. Catharines	23.70	93	31.8	24
Vineland	26.14	102	28.8	17
MANITOULIN:				
Providence Bay	20.54	45	78.3	22
Middlesex:				
London	28.76	121	62.4	33
Lucan	33.23	117	55.1	53
MUSKOKA:				
Beatrice	21.98	88	84.0	35
Walker's Point	26.78	106	93.1	49
Nipissing:				
Algonquin Park	17.22	64	66.7	30
Iroquois Falls	25.85	92	81.1	66
Madawaska	19.68	65	72.5	19
Montreal River	25.78	98	54.4	44
New Liskeard	26.78	80	54.0	41
North Bay	24.84	86	53.5	28
Rutherglen	22.92	76	68.0	27
NORFOLK:				
Simcoe	31.31	104	55.6	27
NORTHUMBERLAND:				
Healy Falls	24.90	84	54.4	26
OXFORD:				
Woodstock	24.72	103	55.3	58
PARRY SOUND:				
Magnetawan	23.96	91	87.6	47
Nipissing	25.74	88	63.8	39
Parry Sound	25.80	112	94.9	60
PEEL:				
Alton	28.61	81	104.0	40
PERTH:				
Stratford	34.75	98	82.8	41
PETERBOROUGH:				
Apsley	28.16	100	72.5	31
Lakefield	21.94	72	56.5	26
Peterborough	22.50	95	59.5	32
PRINCE EDWARD:				
Bloomfield	23.90	86	89.0	30
Rainy River:				
Emo	18.38	56	67.1	29
Fort Francis	18.34	65	79.3	25
Kenora	15.19	48	67.5	29
Mine Centre	22.13	88	29.6	42
Sioux Lookout	20.97	85	63.4	34
Atikokan	21.41	72	34.6	27
RENFREW:				
Clontarf	17.50	68	85.8	34
Pembroke	19.78	82	55.9	35
SIMCOE:				
Beeton	25.09	62	50.4	23
Orillia	22.99	102	60.0	43
Washago	24.39	119	78.3	42
SUDBURY:				
Chapleau	25.75	98	68.5	42
Coniston	26.04	81	48.3	38
Timmins	20.70	94	78.3	69
THUNDER BAY:				
Kakabeka Falls	21.92	92	25.0	29
Port Arthur	26.68	101	29.6	39
Savanne	21.68	89	27.1	26
Schreiber	24.54	68	31.0	19
VICTORIA:				
Fenelon Falls	22.57	106	71.1	44
Lindsay	22.05	95	50.6	40
WATERLOO:				
Kitchener	23.55	66	38.9	18
WELLINGTON:				
Guelph	26.18	79	50.6	30
YORK:				
Agincourt	22.24	92	48.6	29
Toronto	21.49	101	58.3	36
Average for the Province: 1931	23.87	87	59.6	33
1930	20.95	81	65.7	39
1929	24.83	82	88.5	46
1882–1931	24.33	74	72.4	39

RAIN AND SNOW

TABLE IV.—Monthly summary of inches of rain and snow in precipitation in the several districts in Ontario in 1931. Also the average derived from the fifty years, 1882-1931.

Months	West and Southwest		North and Northwest		Centre		East and Northeast		The Province	
	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow	Rain	Snow
1931	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	0.29	19.8	......	17.3	0.09	21.0	......	22.7	0.09	20.2
February	0.46	9.4	0.02	8.4	0.23	11.4	0.18	12.2	0.22	10.4
March	0.98	11.8	0.08	14.4	0.64	16.5	0.73	16.9	0.61	14.9
April	2.39	2.5	1.15	4.9	1.83	2.1	2.11	1.5	1.87	2.7
May	1.99	......	2.61	1.4	2.18	......	3.15	......	2.48	0.3
June	2.49	......	2.20	......	2.14	......	1.84	......	2.17	......
July	4.41	......	3.07	......	3.29	......	3.09	......	3.47	......
August	2.07	......	2.05	......	1.99	......	1.03	......	1.78	......
September	3.69	......	4.57	......	3.78	......	4.26	......	4.07	......
October	2.77	......	3.36	0.2	2.71	0.3	1.90	......	2.69	0.1
November	3.00	2.0	2.97	5.8	3.11	1.3	2.31	0.4	2.85	2.4
December	2.15	6.7	0.29	8.6	1.86	10.7	1.97	8.3	1.57	8.6
The year	26.69	52.2	22.37	61.0	23.85	63.3	22.57	62.0	23.87	59.6
1882–1931										
January	1.13	16.5	0.53	22.6	1.00	17.1	0.92	19.8	0.89	19.0
February	1.04	13.7	0.35	17.8	0.82	14.1	0.58	16.4	0.70	15.5
March	1.40	8.8	0.81	13.1	1.31	9.9	1.19	11.5	1.18	10.8
April	2.17	2.1	1.50	4.4	2.07	2.9	1.78	3.5	1.88	3.2
May	3.04	0.1	2.48	0.3	2.77	0.1	2.70	0.1	2.75	0.2
June	2.94	......	2.77	......	2.78	......	2.79	......	2.82	......
July	2.80	......	2.98	......	2.92	......	2.89	......	2.90	......
August	2.69	......	2.77	......	2.43	......	2.59	......	2.62	......
September	2.70	......	3.11	......	2.49	......	2.61	S	2.73	S
October	2.71	0.8	2.79	2.3	2.58	0.7	2.51	1.0	2.65	1.2
November	2.31	5.5	1.71	11.6	2.05	5.2	1.94	6.8	2.00	7.3
December	1.91	14.3	0.70	20.0	1.17	12.5	1.07	14.1	1.21	15.2
The year	26.84	61.8	22.50	92.1	24.39	62.5	23.57	73.2	24.33	72.4

SUNSHINE

Table V.—Monthly summary of bright sunshine at the principal stations in Ontario for 1931 showing the number of hours the sun was above the horizon, the hours of registered sunshine, the total for the year and average derived from the fifty years, 1882-1931.

Months	Sun above horizon	Woodstock	Toronto	Lindsay	Kingston	Ottawa	Average of five stations		
							1931	1930	1882–1931
1931	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
January	285.7	77.7	86.7	67.7	96.6	91.5	84.0	71.6	....
February	291.4	115.6	116.6	87.6	118.6	118.0	113.3	91.5	....
March	369.9	96.2	125.9	115.7	114.7	112.5	113.0	128.7	....
April	406.4	194.3	198.4	162.7	201.2	209.3	193.2	172.3	....
May	461.1	231.1	227.9	222.9	223.6	250.2	231.1	221.5	....
June	465.7	272.8	274.7	226.9	266.7	293.6	266.9	246.2	....
July	470.9	271.4	265.9	201.3	254.4	251.4	248.9	295.0	....
August	434.5	228.2	244.2	206.6	258.2	246.0	236.6	239.0	....
September	376.3	187.3	210.9	163.8	199.8	186.5	189.7	176.0	....
October	340.2	177.2	175.5	144.0	174.0	155.7	165.3	144.8	....
November	286.9	74.3	75.0	73.5	84.5	75.0	76.5	82.2	....
December	274.3	74.6	76.4	87.6	79.0	81.9	79.9	52.8	....
The year	4,463.3	2,007.7	2,078.1	1,760.3	2,071.3	2,071.6	1,996.4	1,921.6	....
1882–1931									
January	....	66.8	78.9	73.6	79.5	89.0	....	....	77.6
February	....	91.0	106.5	98.2	109.4	112.4	....	....	103.5
March	....	126.4	153.1	141.7	145.2	152.0	....	....	143.7
April	....	170.0	189.0	176.1	180.5	191.1	....	....	181.3
May	....	214.4	225.3	204.3	210.2	214.5	....	....	213.7
June	....	254.2	263.9	232.8	249.8	241.9	....	....	248.5
July	....	277.9	285.6	247.2	271.3	261.5	....	....	268.7
August	....	237.1	253.4	222.8	248.2	243.0	....	....	240.9
September	....	176.4	204.8	178.0	182.9	174.9	....	....	183.4
October	....	146.1	152.8	127.5	135.0	133.7	....	....	139.0
November	....	75.2	82.4	68.4	79.4	81.5	....	....	77.4
December	....	55.1	64.9	56.1	67.9	66.8	....	....	62.2
The year	....	1,890.6	2,060.6	1,826.7	1,959.3	1,962.3	....	....	1,939.9

RURAL AREA ASSESSED

TABLE VI.—Showing by County Municipalities the rural area of Ontario as returned by Municipal Assessors for 1931 to the Bureau of Municipal Affairs.

Counties and Districts	Acres of Assessed Land			Acres Cleared			Per cent. cleared
	Resident	Non-resident	Total	Resident	Non-resident	Total	
Algoma	257,746	76,858	334,604	64,323	3,802	68,125	20.36
Brant	213,847	1,756	215,603	179,323	17	179,340	83.18
Bruce	915,538	18,210	933,748	572,601	11,258	583,859	62.53
Carleton	553,061	10,478	563,539	382,376	4,392	386,768	68.63
Cochrane	136,940	30,431	167,371	22,705	985	23,690	14.15
Dufferin	356,427	....	356,427	284,481	....	284,481	79.81
Dundas	235,322	....	235,322	187,302	....	187,302	79.59
Durham	366,040	3,818	369,858	309,071	2,200	311,271	84.16
Elgin	436,268	200	436,468	366,599	200	366,799	84.04
Essex	410,224	3,906	414,130	372,463	3,906	376,369	90.88
Frontenac	615,207	69,353	684,560	239,218	12,624	251,842	36.79
Glengarry	288,711	427	289,138	201,029	180	201,209	69.59
Grenville	268,675	3,697	272,372	183,752	3,577	187,329	68.78
Grey	1,065,348	681	1,066,029	696,975	120	697,095	65.39
Haldimand	278,399	3,926	282,325	245,190	2,503	247,693	87.73
Haliburton	527,866	54,763	582,629	42,946	7,174	50,120	8.60
Halton	216,049	8,511	224,560	169,853	2,887	172,740	76.92
Hastings	989,364	97,846	1,087,210	417,273	4,337	421,610	38.78
Huron	786,848	13,284	800,132	668,969	12,495	681,464	85.17
Kenora	78,609	13,509	92,118	9,953	1,378	11,331	12.30
Kent	566,889	....	566,889	498,954	....	498,954	88.02
Lambton	661,851	406	662,257	547,109	5	547,114	82.61
Lanark	662,163	11,134	673,297	340,248	3,594	343,842	51.07
Leeds	463,373	6,248	469,621	271,260	1,980	273,240	58.18
Lennox & Addington	424,257	5,265	429,522	255,172	1,115	256,287	59.67
Lincoln	188,379	1,077	189,456	164,718	943	165,661	87.44
Manitoulin	256,939	94,115	351,054	49,636	2,198	51,834	14.77
Middlesex	728,790	27,404	756,194	649,619	25,573	675,192	89.29
Muskoka	523,044	47,161	570,205	74,144	2,249	76,393	13.40
Nipissing	300,331	9,017	309,348	68,888	704	69,592	22.50
Norfolk	393,180	1,889	395,069	280,227	716	280,943	71.11
Northumberland	434,527	1,285	435,812	356,309	1,265	357,574	82.05
Ontario	504,556	1,985	506,541	385,458	200	385,658	76.14
Oxford	469,367	2,429	471,796	405,264	1,871	407,135	86.29
Parry Sound	538,185	97,048	635,233	86,260	5,108	91,368	14.38
Peel	286,963	828	287,791	261,876	658	262,534	91.22
Perth	511,058	7,835	518,893	455,467	4,975	460,442	88.74
Peterborough	513,528	66,646	580,174	256,394	10,936	267,330	46.08
Prescott	289,395	3,287	292,682	219,111	2,254	221,365	75.63
Prince Edward	234,287	652	234,939	198,355	....	198,355	84.43
Rainy River	304,506	95,372	399,878	50,619	7,219	57,838	14.46
Renfrew	1,018,018	64,034	1,082,052	389,606	14,772	404,378	37.37
Russell	240,501	11,145	251,646	169,005	5	169,010	67.16
Simcoe	943,085	12,206	955,291	686,192	8,154	694,346	72.68
Stormont	246,035	2,400	248,435	166,923	450	167,373	67.38
Sudbury	278,483	122,336	400,819	66,015	15,018	81,033	20.22
Thunder Bay	501,520	27,974	529,494	46,314	3,191	49,505	9.35
Timiskaming	239,211	63,913	303,124	70,100	5,666	75,766	25.00
Victoria	580,122	12,402	592,524	294,126	4,298	298,424	50.36
Waterloo	305,098	1,893	306,991	255,624	1,595	257,219	83.79
Welland	220,874	1,421	222,295	182,730	1,140	183,870	82.71
Wellington	622,853	4,710	627,563	507,756	2,828	510,584	81.36
Wentworth	265,773	....	265,773	208,365	....	208,365	78.40
York	521,246	8,516	529,762	443,098	1,678	444,776	83.96
The Province:							
1931	24,234,876	1,225,687	25,460,563	14,977,344	206,393	15,183,737	59.64
1930	24,246,127	1,171,749	25,417,876	14,988,565	194,675	15,183,240	59.73
1929	24,250,377	1,155,083	25,405,460	14,985,586	178,311	15,163,897	59.69

NOTE.—Statistics regarding non-resident lands which should include unoccupied lands assessable are not satisfactory, as many assessors do not make any distinction on their rolls.

FALL WHEAT AND SPRING WHEAT

TABLE VII.—Showing by County Municipalities of Ontario the area, produce and market value of Fall Wheat and Spring Wheat for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Fall Wheat				Spring Wheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	112	2,128	19.0	1,234	1,331	24,757	18.6	14,111
Brant	11,843	316,208	26.7	146,404	764	16,044	21.0	6,899
Bruce	16,765	407,390	24.3	222,435	1,703	38,828	22.8	20,113
Carleton	32	723	22.6	427	4,162	88,234	21.2	45,529
Cochrane	62	1,550	25.0	930	522	12,110	23.2	7,145
Dufferin	3,260	96,822	29.7	52,671	2,102	49,187	23.4	25,774
Dundas	103	2,863	27.8	1,675	1,270	29,337	23.1	15,695
Durham	7,744	205,216	26.5	113,895	2,969	49,582	16.7	25,436
Elgin	15,315	427,289	27.9	212,790	165	3,548	21.5	1,685
Essex	45,988	1,439,424	31.3	672,211	441	10,055	22.8	4,625
Frontenac	139	3,753	27.0	2,177	1,195	28,680	24.0	15,344
Glengarry	23	529	23.0	302	1,867	37,153	19.9	19,505
Grenville	99	2,525	25.5	1,490	636	13,992	22.0	7,416
Grey	14,156	349,653	24.7	195,456	2,765	55,300	20.0	27,650
Haldimand	15,681	461,021	29.4	248,951	2,227	46,990	21.1	24,059
Haliburton	13	247	19.0	138	121	2,299	19.0	1,264
Halton	6,674	204,224	30.6	113,957	3,503	76,015	21.7	38,008
Hastings	1,660	42,164	25.4	24,033	1,493	29,114	19.5	15,285
Huron	24,904	677,389	27.2	349,533	2,798	58,478	20.9	28,245
Kenora	25	625	25.0	369	484	11,277	23.3	6,541
Kent	74,780	2,303,224	30.8	1,089,425	1,616	34,421	21.3	14,939
Lambton	35,972	1,115,132	31.0	553,105	1,554	36,364	23.4	17,709
Lanark	187	4,208	22.5	2,378	3,139	70,314	22.4	35,157
Leeds	260	7,046	27.1	4,228	1,232	28,336	23.0	15,018
Lennox & Add'gton	505	10,252	20.3	5,741	1,803	31,372	17.4	15,686
Lincoln	6,379	175,423	27.5	90,694	817	17,729	21.7	8,989
Manitoulin	165	4,125	25.0	2,372	1,149	21,601	18.8	12,097
Middlesex	29,455	786,449	26.7	420,750	1,457	30,888	21.2	15,135
Muskoka	9	207	23.0	120	121	2,347	19.4	1,326
Nipissing	31	682	22.0	409	780	12,792	16.4	7,547
Norfolk	9,717	262,359	27.0	139,837	860	19,694	22.9	10,182
Northumberland	8,507	215,227	25.3	114,716	2,602	51,259	19.7	25,630
Ontario	11,875	344,375	29.0	199,393	2,751	55,845	20.3	27,923
Oxford	14,904	439,668	29.5	236,981	809	18,203	22.5	9,102
Parry Sound	34	680	20.0	388	421	6,904	16.4	3,894
Peel	8,963	267,097	29.8	146,636	3,421	83,472	24.4	41,736
Perth	20,192	587,587	29.1	323,173	1,534	33,901	22.1	16,815
Peterborough	8,612	227,357	26.4	121,863	1,489	26,058	17.5	13,029
Prescott	26	572	22.0	327	1,751	31,693	18.1	15,847
Prince Edward	1,225	27,563	22.5	14,471	1,082	19,476	18.0	9,933
Rainy River	32	704	22.0	415	1,197	22,504	18.8	13,052
Renfrew	188	4,399	23.4	2,481	17,512	285,446	16.3	142,723
Russell	8	180	22.5	99	1,361	2,722	20.0	1,375
Simcoe	52,108	1,422,548	27.3	751,105	1,920	44,160	23.0	22,257
Stormont	27	648	24.0	389	568	12,269	21.6	6,674
Sudbury	57	1,140	20.0	673	1,050	21,210	20.2	12,302
Thunder Bay	31	682	22.0	389	769	16,072	20.9	9,000
Timiskaming	101	2,363	23.4	1,420	1,722	37,712	21.9	19,120
Victoria	8,455	214,757	25.4	120,264	1,599	30,381	19.0	15,950
Waterloo	17,176	479,210	27.9	264,524	422	8,440	20.0	4,136
Welland	11,509	345,270	30.0	178,505	273	5,733	21.0	2,580
Wellington	6,483	196,435	30.3	108,432	3,156	74,797	23.7	37,399
Wentworth	6,979	182,850	26.2	103,310	869	19,900	22.9	10,945
York	25,474	741,293	29.1	387,696	3,859	87,599	22.7	43,011
The Province:								
1931	525,024	15,013,455	28.6	7,747,787	99,183	1,982,594	20.0	1,008,547
1930	676,802	18,047,207	26.7	11,958,527	98,966	2,179,204	22.0	1,426,734

1931 Fall wheat and spring wheat acreages are compiled from the Decennial Census.

OATS AND BARLEY

TABLE VIII.—Showing by County Municipalities of Ontario the area, produce and market value of Oats and Barley for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Oats				Barley			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	15,681	434,364	27.7	119,450	3,275	92,683	28.3	38,000
Brant	31,374	1,091,815	34.8	256,577	5,870	170,230	29.0	55,835
Bruce	92,152	3,087,092	33.5	799,557	14,650	436,570	29.8	158,038
Carleton	71,265	2,187,836	30.7	546,959	7,716	218,363	28.3	88,874
Cochrane	9,008	315,280	35.0	91,431	1,604	52,932	33.0	22,231
Dufferin	43,262	1,336,796	30.9	327,515	13,631	381,668	28.0	125,187
Dundas	15,062	480,478	31.9	134,053	4,227	124,697	29.5	50,128
Durham	35,033	1,114,049	31.8	276,284	7,013	190,754	27.2	69,816
Elgin	42,295	1,501,473	35.5	328,823	5,870	177,861	30.3	59,406
Essex	65,100	2,610,510	40.1	608,249	10,147	374,424	36.9	143,030
Frontenac	32,565	1,042,080	32.0	268,857	3,067	92,010	30.0	31,743
Glengarry	44,161	1,391,072	31.5	365,852	4,743	130,907	27.6	52,756
Grenville	23,524	766,882	32.6	213,960	1,574	48,007	30.5	19,635
Grey	117,961	3,609,607	30.6	898,792	28,815	870,213	30.2	331,551
Haldimand	42,333	1,498,588	35.4	337,182	6,408	205,697	32.1	65,617
Haliburton	7,856	219,968	28.0	57,192	1,059	24,357	23.0	8,769
Halton	26,234	991,645	37.8	276,669	6,974	239,906	34.4	92,604
Hastings	68,903	2,239,348	32.5	606,863	10,547	290,043	27.5	116,017
Huron	107,586	4,055,992	37.7	993,718	23,249	776,517	33.4	274,887
Kenora	4,777	164,329	34.4	46,012	1,467	51,345	35.0	18,227
Kent	63,975	2,386,268	37.3	498,730	16,119	488,406	30.3	171,919
Lambton	83,602	3,059,833	36.6	639,505	13,165	456,826	34.7	150,296
Lanark	33,778	1,141,696	33.8	315,108	5,563	161,327	29.0	65,821
Leeds	40,648	1,256,023	30.9	361,735	3,497	99,315	28.4	40,521
Lennox & Add'gton	31,273	838,116	26.8	234,672	4,546	120,924	26.6	47,765
Lincoln	22,689	794,115	35.0	192,970	1,851	58,492	31.6	20,648
Manitoulin	8,877	255,658	28.8	67,749	2,319	62,149	26.8	25,170
Middlesex	91,914	3,492,732	38.0	817,299	13,872	435,581	31.4	138,079
Muskoka	10,527	289,493	27.5	78,163	565	14,464	25.6	5,742
Nipissing	19,898	557,144	28.0	153,215	2,349	59,665	25.4	24,761
Norfolk	33,342	1,180,307	35.4	265,569	2,560	76,800	30.0	25,344
Northumberland	51,000	1,570,800	30.8	376,992	7,549	196,274	26.0	72,647
Ontario	50,050	1,616,615	32.3	426,786	12,798	406,976	31.8	145,697
Oxford	49,677	1,922,500	38.7	444,098	8,555	296,003	34.6	105,377
Parry Sound	22,517	634,979	28.2	177,794	2,291	60,482	26.4	25,584
Peel	33,428	1,193,380	35.7	332,953	10,771	343,595	31.9	132,971
Perth	78,315	2,819,340	36.0	724,570	21,975	764,730	34.8	282,950
Peterborough	45,445	1,336,083	29.4	360,742	6,105	161,783	26.5	60,507
Prescott	52,728	1,682,023	31.9	410,414	6,896	196,536	28.5	78,811
Prince Edward	30,828	887,846	28.8	189,111	8,589	221,596	25.8	77,115
Rainy River	11,291	346,634	30.7	98,791	3,754	102,109	27.2	35,738
Renfrew	70,112	1,956,125	27.9	502,724	11,061	292,010	26.4	110,964
Russell	40,862	1,385,222	33.9	347,691	4,205	129,094	30.7	52,025
Simcoe	103,113	3,536,776	34.3	908,951	27,875	855,763	30.7	305,507
Stormont	29,732	981,156	33.0	279,629	2,745	79,605	29.0	32,399
Sudbury	17,193	448,737	26.1	125,646	2,873	79,008	27.5	31,603
Thunder Bay	6,096	199,949	32.8	53,986	1,868	52,117	27.9	20,013
Timiskaming	17,191	489,944	28.5	142,084	4,311	131,917	30.6	56,065
Victoria	49,125	1,444,275	29.4	400,064	14,670	410,760	28.0	143,766
Waterloo	47,134	1,635,550	34.7	394,168	7,100	226,490	31.9	83,348
Welland	21,949	730,902	33.3	178,340	2,001	60,830	30.4	21,899
Wellington	78,736	2,708,518	34.4	666,295	18,598	617,454	33.2	221,049
Wentworth	28,403	971,383	34.2	235,075	3,952	128,045	32.4	45,072
York	58,548	2,090,164	35.7	543,443	18,734	610,728	32.6	219,251
The Province:								
1931	2,330,128	77,979,490	33.5	19,499,057	437,588	13,407,038	30.6	4,898,775
1930	2,468,913	97,481,866	39.5	28,983,780	609,879	20,910,731	34.3	7,496,760

1931 Oats and barley acreages are compiled from the Decennial Census.

PEAS AND BEANS

TABLE IX.—Showing by County Municipalities of Ontario the area, produce and market value of Peas and Beans for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Peas				Beans			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma..........	997	20,439	20.5	12,427	28	280	10.0	157
Brant............	501	8,016	16.0	5,210	628	8,792	14.0	5,275
Bruce............	2,753	50,380	18.3	30,833	50	675	13.5	395
Carleton.........	625	10,625	17.0	6,949	128	1,920	15.0	1,091
Cochrane.........	310	6,665	21.5	4,066	....	....	....	....
Dufferin..........	826	13,216	16.0	7,520	22	330	15.0	185
Dundas..........	94	1,598	17.0	980	124	1,922	15.5	1,172
Durham..........	4,693	61,948	13.2	40,266	652	11,932	18.3	7,458
Elgin............	649	11,358	17.5	6,247	14,171	221,068	15.6	128,441
Essex............	693	10,395	15.0	5,873	750	10,500	14.0	5,933
Frontenac........	13	221	17.0	139	66	990	15.0	584
Glengarry........	55	990	18.0	625	45	675	15.0	395
Grenville.........	52	936	18.0	552	32	544	17.0	340
Grey............	2,378	42,566	17.9	29,456	66	792	12.0	446
Haldimand.......	1,016	17,780	17.5	11,557	442	5,746	13.0	3,218
Haliburton.......	44	616	14.0	370	1	10	10.0	6
Halton...........	216	3,564	16.5	2,281	77	924	12.0	517
Hastings.........	1,058	20,102	19.0	12,966	149	2,310	15.5	1,358
Huron...........	2,052	32,216	15.7	22,519	11,584	189,978	16.4	109,237
Kenora..........	48	960	20.0	600	....	....	....	....
Kent............	286	4,490	15.7	2,514	33,821	503,933	14.9	289,761
Lambton.........	854	14,945	17.5	8,519	2,484	39,744	16.0	22,058
Lanark..........	420	8,232	19.6	5,334	34	510	15.0	283
Leeds............	38	608	16.0	365	18	252	14.0	149
Lennox & Add'gton	841	10,344	12.3	6,827	32	544	17.0	310
Lincoln..........	189	3,081	16.3	2,064	103	1,524	14.8	884
Manitoulin.......	1,446	29,354	20.3	17,759	113	1,695	15.0	949
Middlesex........	1,133	20,167	17.8	13,915	5,615	99,386	17.7	58,936
Muskoka.........	126	2,470	19.6	1,494	4	60	15.0	36
Nipissing.........	467	10,274	22.0	5,959	21	210	10.0	128
Norfolk..........	224	4,480	20.0	2,612	537	8,324	15.5	4,686
Northumberland..	1,913	28,695	15.0	18,078	602	9,632	16.0	5,442
Ontario..........	1,343	26,860	20.0	16,788	125	1,875	15.0	1,069
Oxford...........	757	14,383	19.0	8,774	418	5,643	13.5	3,019
Parry Sound......	455	7,781	17.1	4,630	13	195	15.0	121
Peel.............	291	5,791	19.9	3,533	223	2,453	11.0	1,325
Perth............	944	18,314	19.4	11,831	342	5,472	16.0	3,119
Peterborough.....	2,562	37,149	14.5	23,032	34	510	15.0	291
Prescott..........	316	5,530	17.5	3,473	85	1,275	15.0	733
Prince Edward....	1,287	19,305	15.0	12,375	240	3,240	13.5	1,831
Rainy River......	87	1,279	14.7	793	11	110	10.0	70
Renfrew..........	11,998	161,973	13.5	95,726	232	3,480	15.0	2,071
Russell...........	271	4,661	17.2	2,978	141	2,115	15.0	1,322
Simcoe...........	4,404	86,318	19.6	53,431	853	14,501	17.0	9,440
Stormont.........	31	558	18.0	348	64	1,024	16.0	676
Sudbury..........	615	11,993	19.5	7,172	8	80	10.0	51
Thunder Bay.....	170	3,400	20.0	2,006	2	20	10.0	13
Timiskaming.....	790	14,694	18.6	8,963	6	60	10.0	39
Victoria..........	1,906	32,402	17.0	19,927	45	698	15.5	420
Waterloo.........	669	12,243	18.3	7,554	89	1,157	13.0	718
Welland..........	87	1,392	16.0	835	646	10,013	15.5	6,609
Wellington.......	1,223	23,237	19.0	15,987	93	1,395	15.0	872
Wentworth.......	432	7,344	17.0	4,898	156	2,262	14.5	1,425
York.............	1,296	24,494	18.9	16,656	87	1,392	16.0	870
The Province:								
1931.........	*58,944	972,832	16.5	608,586	76,312	1,184,172	15.5	685,934
1930.........	80,093	1,581,468	19.7	1,657,822	67,540	905,498	13.4	1,306,852

1931 Peas and beans acreages are compiled from the Decennial Census.

*The acreage of canning factory peas was included in the figures for 1930 and previous years. Commencing this year only peas for grain will be included.

RYE AND BUCKWHEAT

Table X.—Showing by County Municipalities of Ontario the area, produce and market value of Rye and Buckwheat for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Rye				Buckwheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	162	3,078	19.0	1,339	86	1,720	20.0	748
Brant	4,457	79,335	17.8	32,527	3,660	64,050	17.5	22,418
Bruce	97	1,698	17.5	747	3,998	82,759	20.7	34,014
Carleton	222	3,996	18.0	1,670	4,804	102,806	21.4	46,263
Cochrane	26	442	17.0	190	12	216	18.0	91
Dufferin	2,123	42,460	20.0	16,984	1,637	37,651	23.0	15,550
Dundas	26	494	19.0	198	2,484	58,871	23.7	28,258
Durham	4,258	58,335	13.7	23,859	7,674	153,480	20.0	61,545
Elgin	1,639	29,666	18.1	12,074	6,348	121,247	19.1	50,075
Essex	1,033	20,970	20.3	9,185	1,443	30,592	21.2	13,216
Frontenac	131	2,620	20.0	1,153	1,524	32,004	21.0	13,538
Glengarry	121	2,057	17.0	885	2,321	52,223	22.5	23,239
Grenville	144	2,880	20.0	1,218	4,570	100,540	22.0	47,153
Grey	293	5,860	20.0	2,461	3,742	89,060	23.8	36,604
Haldimand	532	8,831	16.6	3,886	1,640	29,848	18.2	12,387
Haliburton	51	510	10.0	204	342	6,840	20.0	2,736
Halton	161	3,220	20.0	1,320	696	13,224	19.0	5,554
Hastings	1,317	22,521	17.1	9,008	5,078	101,560	20.0	45,600
Huron	129	3,032	23.5	1,334	9,181	212,999	23.2	87,117
Kenora	21	378	18.0	151	1	20	20.0	8
Kent	951	19,971	21.0	8,388	4,005	84,506	21.1	36,422
Lambton	344	5,504	16.0	2,378	784	13,328	17.0	5,731
Lanark	165	2,723	16.5	1,116	3,644	84,905	23.3	39,056
Leeds	102	1,836	18.0	762	3,747	80,561	21.5	39,072
Lennox & Add'gton	195	2,984	15.3	1,253	3,092	54,419	17.6	26,176
Lincoln	295	5,723	19.4	2,375	221	4,553	20.6	2,094
Manitoulin	46	690	15.0	283	167	2,505	15.0	1,027
Middlesex	558	11,439	20.5	4,724	4,212	85,925	20.4	35,057
Muskoka	62	1,116	18.0	446	163	3,016	18.5	1,372
Nipissing	179	3,222	18.0	1,418	210	3,990	19.0	1,716
Norfolk	8,360	150,480	18.0	67,415	6,665	122,636	18.4	44,517
Northumberland	4,536	83,916	18.5	33,986	11,734	220,599	18.8	90,004
Ontario	2,989	53,802	18.0	23,027	10,863	215,087	19.8	87,971
Oxford	1,769	35,380	20.0	14,152	5,495	117,044	21.3	51,616
Parry Sound	73	1,292	17.7	556	85	1,530	18.0	673
Peel	992	18,848	19.0	7,539	1,319	25,061	19.0	11,603
Perth	108	1,944	18.0	778	3,186	60,534	19.0	24,153
Peterborough	683	12,294	18.0	5,286	4,305	82,226	19.1	35,111
Prescott	156	2,652	17.0	1,127	1,255	27,108	21.6	13,012
Prince Edward	2,140	35,738	16.7	15,403	4,750	85,500	18.0	34,200
Rainy River	86	1,720	20.0	688	41	841	20.5	353
Renfrew	3,783	62,420	16.5	24,344	3,602	68,798	19.1	25,730
Russell	102	1,785	17.5	721	1,309	28,929	22.1	12,873
Simcoe	6,062	106,691	17.6	44,063	14,061	330,434	23.5	143,739
Stormont	29	522	18.0	219	1,862	44,316	23.8	21,671
Sudbury	333	5,994	18.0	2,517	305	6,100	20.0	2,471
Thunder Bay	105	2,100	20.0	840	34	663	19.5	278
Timiskaming	5	83	16.6	36	135	2,565	19.0	1,064
Victoria	368	5,888	16.0	2,514	10,770	199,245	18.5	81,491
Waterloo	1,047	21,359	20.4	9,398	1,395	29,993	21.5	13,467
Welland	462	9,240	20.0	3,927	1,556	26,763	17.2	11,776
Wellington	397	6,352	16.0	2,827	4,558	102,255	22.5	43,688
Wentworth	5,737	109,577	19.1	45,913	1,519	30,988	20.4	12,736
York	1,539	27,086	17.6	11,782	6,429	126,651	19.7	53,573
The Province:								
1931	61,701	1,104,754	17.9	462,594	178,719	3,665,584	20.5	1,551,607
1930	52,881	937,302	17.7	454,565	275,317	5,675,616	20.6	2,935,428

1931 Rye and buckwheat acreages are compiled from the Decennial Census.

FLAX AND MIXED GRAINS

TABLE XI.—Showing by County Municipalities of Ontario the area, produce and market value of Flax and Mixed Grains for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Flax				Mixed Grains			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	9	90	10.0	90	3,510	112,320	32.0	43,019
Brant	11	110	10.0	114	27,216	936,230	34.4	346,405
Bruce	746	8,430	11.3	9,104	34,192	1,142,013	33.4	381,432
Carleton	45	450	10.0	477	17,515	577,995	33.0	205,188
Cochrane	5	50	10.0	50	937	29,047	31.0	11,096
Dufferin	29	261	9.0	261	32,782	1,052,302	32.1	324,109
Dundas	26	156	6.0	156	28,923	954,459	33.0	364,603
Durham	47	470	10.0	470	33,884	979,248	28.9	353,509
Elgin	79	632	8.0	632	24,004	914,552	38.1	348,444
Essex	274	2,740	10.0	2,740	4,771	190,840	40.0	70,611
Frontenac	9	63	7.0	67	7,584	227,520	30.0	68,256
Glengarry	4	32	8.0	33	3,400	110,500	32.5	41,769
Grenville	20	140	7.0	140	10,434	35,973	34.5	119,871
Grey	111	1,110	10.0	1,177	52,141	1,684,154	32.3	510,299
Haldimand	97	970	10.0	970	16,085	571,018	35.5	206,137
Haliburton	12	120	10.0	120	1,188	33,264	28.0	12,308
Halton	49	588	12.0	588	16,071	583,377	36.3	204,182
Hastings	48	384	8.0	384	15,320	464,196	30.3	161,540
Huron	1,736	21,179	12.2	23,297	57,118	2,204,755	38.6	851,035
Kenora	8	64	8.0	63	223	7,359	33.0	2,465
Kent	108	1,080	10.0	1,080	13,150	478,660	36.4	174,232
Lambton	547	7,111	13.0	7,467	25,894	955,489	36.9	352,575
Lanark	24	264	11.0	264	10,840	329,536	30.4	115,338
Leeds	89	890	10.0	935	7,857	245,924	31.3	81,647
Lennox & Add'gton	37	296	8.0	296	10,878	336,130	30.9	113,612
Lincoln	16	112	7.0	112	5,775	207,900	36.0	67,568
Manitoulin	15	150	10.0	150	3,893	121,851	31.3	43,866
Middlesex	286	2,860	10.0	2,946	29,059	1,075,183	37.0	408,570
Muskoka	9	90	10.0	90	628	18,212	29.0	6,556
Nipissing	17	153	9.0	153	1,628	46,072	28.3	16,954
Norfolk	18	144	8.0	144	9,197	309,939	33.7	97,631
Northumberland	51	408	8.0	408	21,024	651,744	31.0	221,593
Ontario	29	232	8.0	232	44,491	1,490,449	33.5	515,695
Oxford	59	413	7.0	413	61,076	2,290,350	37.5	872,623
Parry Sound	6	36	6.0	36	1,581	49,169	31.1	19,373
Peel	121	1,210	10.0	1,210	19,974	711,074	35.6	241,765
Perth	250	2,500	10.0	2,625	51,910	1,972,580	38.0	767,334
Peterborough	24	264	11.0	264	6,897	214,497	31.1	81,509
Prescott	39	312	8.0	312	2,247	73,028	32.5	25,487
Prince Edward	18	180	10.0	180	7,727	216,356	28.0	68,152
Rainy River	543	6,082	11.2	5,960	354	11,222	31.7	3,535
Renfrew	22	220	10.0	220	4,936	124,387	25.2	44,157
Russell	119	1,071	9.0	1,103	6,433	212,932	33.1	70,906
Simcoe	931	9,310	10.0	10,148	41,438	1,413,036	34.1	481,845
Stormont	31	217	7.0	217	8,797	274,466	31.2	107,865
Sudbury	14	126	9.0	126	1,395	37,247	26.7	13,968
Thunder Bay	....	....	....	....	1,064	33,516	31.5	10,725
Timiskaming	46	460	10.0	460	1,128	37,788	33.5	14,359
Victoria	48	528	11.0	528	20,941	670,112	32.0	217,116
Waterloo	121	1,271	10.5	1,271	39,937	1,465,688	36.7	537,907
Welland	20	140	7.0	143	5,009	170,306	34.0	53,306
Wellington	217	2,604	12.0	2,604	92,665	3,354,473	36.2	1,214,319
Wentworth	34	272	8.0	272	22,544	820,602	36.4	246,181
York	51	510	10.0	510	42,682	1,600,575	37.5	576,207
The Province:								
1931	7,325	79,555	10.9	83,812	1,012,347	35,155,615	34.7	12,510,754
1930	5,235	51,257	9.8	78,809	958,086	37,512,279	39.2	13,857,314

1931 Flax and mixed grain acreages are compiled from the Decennial Census.

CORN

TABLE XII.—Showing by County Municipalities of Ontario the area, produce and market value of Corn for husking and for fodder for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Corn for Husking				Corn for Silo			
	Acres	Bushels (in the ear)	Per acre	Market value	Acres	Tons (green)	Per acre	Market value
				$				$
Algoma	107	2,140	20.0	449	77	674	8.75	2,696
Brant	1,822	118,430	65.0	30,792	7,616	67,021	8.80	268,084
Bruce	48	1,920	40.0	511	3,167	26,920	8.50	107,680
Carleton	286	11,440	40.0	3,135	11,168	96,045	8.60	384,180
Cochrane	1	20	20.0	4	....	....	....	....
Dufferin	12	420	35.0	108	264	2,165	8.20	8,660
Dundas	251	14,558	58.0	3,872	7,077	58,385	8.25	233,540
Durham	285	12,825	45.0	3,463	4,447	37,800	8.50	151,200
Elgin	7,587	493,155	65.0	133,152	14,336	121,856	8.50	487,424
Essex	48,708	3,239,082	66.5	874,552	3,490	26,175	7.50	104,700
Frontenac	393	17,685	45.0	4,952	3,757	26,299	7.00	105,196
Glengarry	63	3,150	50.0	869	4,136	34,329	8.30	137,316
Grenville	233	12,815	55.0	3,845	4,825	48,250	10.00	193,000
Grey	15	525	35.0	129	3,735	31,748	8.50	126,992
Haldimand	666	39,960	60.0	10,909	3,392	29,171	8.60	116,684
Haliburton	33	858	26.0	185	136	884	6.50	3,536
Halton	58	3,016	52.0	823	3,087	30,870	10.00	123,480
Hastings	527	23,715	45.0	6,498	5,488	49,392	9.00	197,568
Huron	513	30,780	60.0	8,003	4,954	47,063	9.50	188,252
Kenora	....	....	....	....	14	88	6.30	352
Kent	37,122	2,598,540	70.0	657,431	9,767	85,461	8.75	341,844
Lambton	7,417	504,356	68.0	136,176	14,574	123,879	8.50	495,516
Lanark	562	32,596	58.0	8,671	5,241	52,410	10.00	209,640
Leeds	854	42,700	50.0	12,127	8,698	78,282	9.00	313,128
Lennox & Add'gton	272	16,320	60.0	4,651	2,466	20,345	8.25	81,380
Lincoln	1,255	69,025	55.0	18,637	3,800	31,350	8.25	125,400
Manitoulin	32	800	25.0	171	246	2,153	8.75	8,612
Middlesex	2,824	155,320	55.0	41,936	24,899	217,866	8.75	871,464
Muskoka	16	560	35.0	132	207	1,863	9.00	7,452
Nipissing	16	384	24.0	83	32	208	6.50	832
Norfolk	6,130	398,450	65.0	108,378	6,273	47,048	7.50	188,192
Northumberland	414	18,630	45.0	4,993	4,490	40,410	9.00	161,640
Ontario	163	8,476	52.0	2,255	7,253	72,530	10.00	290,120
Oxford	1,094	65,640	60.0	16,804	23,102	207,918	9.0	831,672
Parry Sound	7	210	30.0	47	91	910	10.00	3,640
Peel	10	400	40.0	104	2,762	17,263	6.25	69,052
Perth	86	4,730	55.0	1,220	7,843	70,587	9.00	282,348
Peterborough	75	2,625	35.0	672	3,627	31,192	8.60	124,768
Prescott	464	27,840	60.0	8,352	4,313	36,661	8.50	146,644
Prince Edward	435	26,100	60.0	6,943	1,527	9,926	6.50	39,704
Rainy River	24	720	30.0	144	69	431	6.25	1,724
Renfrew	87	2,697	31.0	717	2,540	25,400	10.00	101,600
Russell	115	5,175	45.0	1,397	4,617	46,170	10.00	184,680
Simcoe	191	6,685	35.0	1,698	4,223	38,007	9.00	152,028
Stormont	272	13,600	50.0	3,808	5,517	49,653	9.00	198,612
Sudbury	10	200	20.0	47	48	348	7.25	1,392
Thunder Bay	3	63	21.0	13	4	21	5.25	84
Timiskaming	2	40	20.0	8	....	....	....	....
Victoria	8	280	35.0	71	4,144	35,224	8.50	140,896
Waterloo	65	2,925	45.0	766	6,899	56,918	8.25	227,672
Welland	1,895	94,750	50.0	26,530	3,951	29,633	7.50	118,532
Wellington	29	1,334	46.0	355	4,472	40,248	9.00	160,992
Wentworth	303	17,574	58.0	4,464	6,092	50,746	8.33	202,984
York	100	5,000	50.0	1,270	5,333	45,331	8.50	181,324
The Province:								
1931	*123,960	8,151,239	65.8	2,157,322	264,286	2,301,527	8.71	9,206,108
1930	130,094	7,723,347	59.4	3,569,682	311,817	2,619,049	8.40	10,476,196

1931 Corn for husking and corn for silo acreages are compiled from the Decennial Census.

*The acreage of canning factory corn was included in the figures for 1930 and previous years. Commencing this year only corn for grain will be included.

POTATOES AND TURNIPS

TABLE XIII.—Showing by County Municipalities of Ontario the area, produce and market value of Potatoes and Turnips for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Potatoes				Turnips			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	2,009	237,263	118.1	61,688	367	105,329	287	10,533
Brant	3,127	265,795	85.0	71,765	1,568	486,080	310	48,608
Bruce	3,241	341,926	105.5	73,856	2,226	667,800	300	66,780
Carleton	5,584	698,000	125.0	177,292	1,120	336,000	300	33,600
Cochrane	1,207	167,652	138.9	48,284	74	19,240	260	1,924
Dufferin	7,026	846,633	120.5	152,394	1,624	682,080	420	68,208
Dundas	1,336	160,320	120.0	41,683	185	57,350	310	5,735
Durham	4,076	499,310	122.5	94,370	1,976	790,400	400	79,040
Elgin	2,886	317,460	110.0	86,032	197	43,340	220	4,334
Essex	4,675	507,238	108.5	132,389	79	17,775	225	1,777
Frontenac	2,362	272,575	115.4	77,684	247	74,100	300	7,410
Glengarry	1,570	213,520	136.0	59,786	246	67,650	275	6,765
Grenville	2,061	269,991	131.0	75,597	171	46,170	270	4,617
Grey	4,864	535,526	110.1	94,788	3,220	1,127,000	350	112,700
Haldimand	720	69,120	96.0	19,354	26	5,200	200	520
Haliburton	515	61,800	120.0	18,540	123	28,536	232	2,853
Halton	1,789	178,900	100.0	34,170	1,177	294,250	250	29,425
Hastings	3,988	542,368	136.0	144,812	783	313,200	400	31,320
Huron	3,398	320,431	94.3	67,931	2,842	852,600	300	85,260
Kenora	509	50,900	100.0	14,048	31	7,750	250	775
Kent	4,602	600,561	130.5	144,135	31	7,750	250	775
Lambton	2,518	248,023	98.5	59,277	245	61,250	250	6,125
Lanark	1,655	216,805	131.0	56,369	491	189,035	385	18,904
Leeds	2,165	281,450	130.0	76,836	354	115,050	325	11,505
Lennox & Add'gton	1,977	240,799	121.8	60,200	88	22,880	260	2,288
Lincoln	1,121	109,858	98.0	28,014	36	11,160	310	1,116
Manitoulin	770	84,700	110.0	21,175	115	31,625	275	3,163
Middlesex	5,747	609,182	106.0	160,215	1,292	413,440	320	41,344
Muskoka	932	121,160	130.0	34,167	324	97,200	300	9,720
Nipissing	2,077	283,303	136.4	72,526	324	74,520	230	7,452
Norfolk	2,617	314,040	120.0	78,510	259	77,700	300	7,770
Northumberland	3,348	369,954	110.5	95,448	2,165	822,700	380	82,270
Ontario	7,490	936,250	125.0	167,589	5,845	2,338,000	400	233,800
Oxford	2,363	304,591	128.9	85,285	4,075	1,426,250	350	142,625
Parry Sound	1,676	209,500	125.0	54,261	429	111,540	260	11,154
Peel	4,640	556,800	120.0	110,246	828	281,520	340	28,152
Perth	2,503	275,831	110.2	66,199	2,944	986,240	335	98,624
Peterborough	2,300	254,840	110.8	70,846	1,611	644,400	400	64,440
Prescott	1,955	258,060	132.0	70,967	219	52,560	240	5,256
Prince Edward	1,216	155,648	128.0	39,690	76	19,760	260	1,976
Rainy River	1,176	154,644	131.5	39,280	159	52,470	330	5,247
Renfrew	3,764	444,152	118.0	131,025	319	89,320	280	8,932
Russell	1,604	209,322	130.5	53,377	451	157,850	350	15,785
Simcoe	12,897	1,741,095	135.0	339,514	5,256	2,102,400	400	210,240
Stormont	1,236	166,860	135.0	44,218	68	20,400	300	2,040
Sudbury	2,644	343,720	130.0	86,617	360	104,400	290	10,440
Thunder Bay	3,855	467,997	121.4	135,719	417	87,570	210	8,757
Timiskaming	1,151	136,969	119.0	41,091	267	64,080	240	6,408
Victoria	1,576	161,540	102.5	39,739	2,609	782,700	300	78,270
Waterloo	3,492	396,342	113.5	102,653	3,520	1,126,400	320	112,640
Welland	1,767	150,195	85.0	41,304	22	4,400	200	440
Wellington	6,772	846,500	125.0	169,300	6,886	2,547,820	370	254,782
Wentworth	6,550	655,000	100.0	153,925	1,652	462,560	280	46,256
York	9,059	1,164,082	128.5	259,590	6,304	2,080,320	330	208,032
The Province:								
1931	168,158	20,026,501	119.1	4,735,770	68,323	23,489,120	344	2,348,912
1930	159,192	18,275,055	114.8	10,906,175	74,133	25,386,998	342	5,077,400

1931 Potato acreage is compiled from the Decennial Census.

MANGELS AND SUGAR BEETS

Table XIV.—Showing by County Municipalities of Ontario the area, produce and market value of Mangels and Sugar Beets for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Mangels				Sugar Beets			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
Algoma	21	6,405	305	641	20	2,000	100	300
Brant	990	361,350	365	36,135	15	3,000	200	450
Bruce	1,221	427,350	350	42,735	34	5,780	170	867
Carleton	327	101,370	310	10,137	116	23,200	200	3,480
Cochrane	4	960	240	96	16	1,648	103	247
Dufferin	235	94,000	400	9,400	58	11,600	200	1,740
Dundas	104	32,760	315	3,276	118	23,600	200	3,540
Durham	943	358,340	380	35,834	51	10,200	200	1,530
Elgin	430	150,500	350	15,050	385	130,900	340	19,635
Essex	746	279,750	375	27,975	5,862	2,110,320	360	316,548
Frontenac	48	12,960	270	1,296	65	13,000	200	1,950
Glengarry	65	19,500	300	1,950	40	7,400	185	1,110
Grenville	40	15,000	375	1,500	55	11,000	200	1,650
Grey	1,463	468,160	320	46,816	173	34,600	200	5,190
Haldimand	138	34,500	250	3,450	45	6,750	150	1,013
Haliburton	15	3,525	235	352	17	2,210	130	331
Halton	784	313,600	400	31,360	91	20,475	225	3,071
Hastings	201	76,380	380	7,638	135	28,350	210	4,252
Huron	2,407	842,450	350	84,245	246	79,950	325	11,993
Kenora	7	1,575	225	158	1	100	100	15
Kent	460	184,000	400	18,400	20,217	8,086,800	400	1,213,020
Lambton	605	242,000	400	24,200	4,247	1,584,131	373	237,619
Lanark	135	49,275	365	4,927	127	25,400	200	3,810
Leeds	84	28,560	340	2,856	40	10,000	250	1,500
Lennox & Add'gton	49	12,985	265	1,299	24	4,800	200	720
Lincoln	104	41,600	400	4,160	104	31,200	300	4,680
Manitoulin	20	6,000	300	600	16	1,600	100	240
Middlesex	1,372	514,500	375	51,450	1,770	575,250	325	86,287
Muskoka	19	5,700	300	570	10	1,550	155	232
Nipissing	23	5,060	220	506	23	2,300	100	345
Norfolk	210	75,600	360	7,560	96	33,600	350	5,040
Northumberland	750	281,250	375	28,125	60	12,000	200	1,800
Ontario	1,998	719,280	360	71,928	42	9,660	230	1,449
Oxford	1,983	852,690	430	85,269	85	17,000	200	2,550
Parry Sound	33	8,250	250	825	15	2,700	180	405
Peel	546	212,940	390	21,294	5	1,100	220	165
Perth	2,620	1,048,000	400	104,800	41	8,200	200	1,230
Peterborough	461	177,485	385	17,749	44	6,600	150	990
Prescott	58	14,500	250	1,450	99	19,800	200	2,970
Prince Edward	60	18,300	305	1,830	14	2,660	190	399
Rainy River	52	16,120	310	1,612	19	1,900	100	285
Renfrew	190	57,950	305	5,795	78	11,310	145	1,697
Russell	78	23,400	300	2,340	40	7,000	175	1,050
Simcoe	1,407	534,660	380	53,466	131	37,990	290	5,699
Stormont	75	24,375	325	2,437	48	8,640	180	1,296
Sudbury	44	11,440	260	1,144	36	3,600	100	540
Thunder Bay	45	9,225	205	922	2	200	100	30
Timiskaming	36	8,820	245	882	9	1,575	175	236
Victoria	650	208,000	320	20,800	18	3,600	200	540
Waterloo	2,084	771,080	370	77,108	2	300	150	45
Welland	82	20,500	250	2,050	67	20,100	300	3,015
Wellington	2,157	819,660	380	81,966	42	10,080	240	1,512
Wentworth	1,213	424,550	350	42,455	67	19,430	290	2,915
York	2,507	827,310	330	82,731	77	17,710	230	2,657
The Province:								
1931	32,399	11,855,500	366	1,185,550	35,258	13,105,869	372	1,965,880
1930	29,055	10,626,135	366	2,125,227	38,220	13,614,358	356	2,333,909

ALSIKE AND SWEET CLOVER

TABLE XV.—Showing by County Municipalities of Ontario the area, produce and market value of Alsike and Sweet Clover for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Alsike				Sweet Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				$				$
Algoma	272	408	1.50	3,321	226	384	1.70	2,611
Brant	61	92	1.50	892	5,749	12,475	2.17	100,424
Bruce	3,320	4,980	1.50	44,820	8,569	17,909	2.09	108,708
Carleton	1,416	2,266	1.60	18,876	4,403	9,378	2.13	73,148
Cochrane	656	853	1.30	7,848	142	249	1.75	1,569
Dufferin	3,081	4,313	1.40	34,720	6,763	13,526	2.00	89,813
Dundas	1,333	2,133	1.60	16,211	2,169	4,772	2.20	23,860
Durham	1,891	3,120	1.65	22,651	10,148	20,296	2.00	138,013
Elgin	1,665	2,831	1.70	24,630	9,561	22,851	2.39	188,292
Essex	1,632	2,448	1.50	23,746	8,349	17,533	2.10	145,524
Frontenac	1,419	2,129	1.50	17,309	2,382	5,074	2.13	37,548
Glengary	1,608	2,412	1.50	18,572	1,333	3,066	2.30	17,415
Grenville	418	732	1.75	6,266	2,073	4,872	2.35	39,950
Grey	3,896	5,844	1.50	46,577	8,764	16,564	1.89	96,071
Haldimand	5,058	6,323	1.25	51,849	3,890	7,780	2.00	45,124
Haliburton	201	271	1.35	2,629	555	971	1.75	7,574
Halton	727	909	1.25	8,090	3,020	6,040	2.00	47,112
Hastings	4,541	7,266	1.60	63,941	8,880	19,891	2.24	135,259
Huron	2,660	3,990	1.50	30,803	17,263	37,979	2.20	234,710
Kenora	1,067	1,334	1.25	11,606	61	12,200	2.00	95,160
Kent	3,025	5,082	1.68	38,725	6,200	13,268	2.14	84,384
Lambton	3,382	5,310	1.57	38,498	13,964	31,978	2.29	167,885
Lanark	1,903	2,855	1.50	27,123	5,321	11,174	2.10	71,514
Leeds	1,361	2,042	1.50	18,378	2,225	4,895	2.20	35,391
Lennox & Add'gton	1,254	1,919	1.53	13,606	4,750	9,975	2.10	57,855
Lincoln	500	780	1.56	8,120	1,524	3,429	2.25	29,489
Manitoulin	409	683	1.67	5,068	806	1,814	2.25	10,884
Middlesex	2,932	5,366	1.83	44,216	17,577	42,185	2.40	253,110
Muskoka	205	291	1.42	2,823	369	664	1.80	5,312
Nipissing	201	322	1.60	3,445	126	252	2.00	2,218
Norfolk	830	1,204	1.45	11,775	4,766	10,247	2.15	71,729
Northumberland	2,302	4,259	1.85	28,535	13,916	32,007	2.30	190,122
Ontario	1,893	3,313	1.75	26,338	9,002	17,104	1.90	99,203
Oxford	538	807	1.50	7,505	12,182	27,775	2.28	223,589
Parry Sound	282	353	1.25	3,639	90	147	1.63	1,294
Peel	4,172	6,341	1.52	59,415	5,494	11,318	2.06	95,863
Perth	843	1,307	1.55	11,815	11,227	23,577	2.10	135,332
Peterborough	992	1,548	1.56	14,799	5,579	11,158	2.00	92,611
Prescott	1,395	1,953	1.40	16,640	1,292	2,584	2.00	20,155
Prince Edward	1,725	2,881	1.67	19,216	7,047	12,332	1.75	73,375
Rainy River	545	643	1.18	4,951	212	265	1.25	1,855
Renfrew	1,569	2,463	1.57	22,044	3,260	5,998	1.84	48,584
Russell	426	635	1.49	5,245	2,480	4,960	2.00	40,325
Simcoe	11,958	22,003	1.84	185,485	14,950	34,385	2.30	189,118
Stormont	1,261	1,955	1.55	14,467	1,287	2,703	2.10	15,083
Sudbury	497	845	1.70	8,197	1,251	2,189	1.75	19,263
Thunder Bay	739	983	1.33	8,061	665	1,164	1.75	8,497
Timiskaming	1,909	3,054	1.60	22,783	158	277	1.75	1,884
Victoria	4,451	6,053	1.36	63,254	9,828	19,656	2.00	179,459
Waterloo	306	545	1.78	5,450	10,636	21,059	1.98	182,792
Welland	761	1,096	1.44	10,248	2,265	4,757	2.10	38,674
Wellington	993	1,569	1.58	11,516	15,378	33,832	2.20	211,450
Wentworth	476	728	1.53	7,280	5,291	11,376	2.15	85,320
York	4,171	6,674	1.60	52,324	10,649	25,132	2.36	148,279
The Province:								
1931	97,128	152,516	1.57	1,276,341	306,067	669,446	2.19	4,519,783
1930	141,480	206,020	1.46	2,101,571	338,234	704,281	2.08	5,363,894

ALFALFA AND HAY AND CLOVER

TABLE XVI.—Showing by County Municipalities of Ontario the area, produce and market value of Alfalfa, Hay and Clover for the year 1931, together with the comparative totals for the Province for 1930.

Counties and Districts	Alfalfa				Hay and Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				$				$
Algoma	207	414	2.00	3,974	27,011	41,867	1.55	344,984
Brant	9,791	21,540	2.20	249,218	22,834	36,534	1.60	351,457
Bruce	20,664	45,461	2.20	405,512	100,423	150,635	1.50	1,048,420
Carleton	3,548	8,338	2.35	91,718	97,632	165,974	1.70	1,322,813
Cochrane	226	362	1.60	3,837	9,605	14,408	1.50	145,953
Dufferin	5,652	12,434	2.20	123,221	57,272	83,044	1.45	675,148
Dundas	1,434	3,585	2.50	32,265	53,157	90,367	1.70	596,422
Durham	3,914	8,807	2.25	87,894	47,498	71,247	1.50	621,986
Elgin	10,672	26,680	2.50	258,262	57,185	91,496	1.60	680,730
Essex	15,725	38,369	2.44	439,709	25,920	42,768	1.65	414,422
Frontenac	4,749	10,685	2.25	103,645	71,420	124,985	1.75	973,633
Glengarry	1,073	2,468	2.30	20,164	61,703	103,044	1.67	694,517
Grenville	1,557	3,737	2.40	34,156	48,868	89,428	1.83	689,490
Grey	41,322	92,975	2.25	821,899	123,863	201,897	1.63	1,496,057
Haldimand	24,259	53,855	2.22	598,868	35,764	44,705	1.25	375,522
Haliburton	73	146	2.00	1,694	12,442	16,548	1.33	173,754
Halton	14,224	24,892	1.75	294,970	25,813	33,557	1.30	354,362
Hastings	12,943	25,886	2.00	255,495	90,503	149,330	1.65	1,423,115
Huron	15,931	39,828	2.50	351,681	105,326	183,267	1.74	1,310,359
Kenora	19	26	1.35	250	4,357	5,664	1.30	50,636
Kent	17,905	49,955	2.79	494,055	44,116	77,203	1.75	623,028
Lambton	16,702	37,580	2.25	338,220	63,039	94,559	1.50	737,560
Lanark	4,620	10,996	2.38	115,458	74,746	119,594	1.60	1,151,690
Leeds	3,739	8,114	2.17	80,734	76,067	139,203	1.83	1,167,913
Lennox & Add'gton	7,934	15,868	2.00	146,779	63,644	101,830	1.60	680,224
Lincoln	11,955	26,899	2.25	325,478	28,483	42,725	1.50	427,250
Manitoulin	1,370	2,740	2.00	24,578	20,660	32,643	1.58	236,662
Middlesex	15,702	36,115	2.30	304,449	89,437	156,515	1.75	1,216,122
Muskoka	109	218	2.00	2,529	28,583	40,016	1.40	452,181
Nipissing	51	84	1.65	974	28,079	42,119	1.50	476,366
Norfolk	9,551	23,400	2.45	264,420	40,677	67,117	1.65	644,994
Northumberland	7,455	17,147	2.30	150,894	53,057	100,808	1.90	887,110
Ontario	9,178	18,356	2.00	207,056	64,230	104,695	1.63	954,818
Oxford	11,636	27,926	2.40	309,979	65,362	117,652	1.80	1,111,811
Parry Sound	81	142	1.75	1,647	30,526	45,789	1.50	499,100
Peel	21,810	43,620	2.00	453,212	34,040	52,762	1.55	547,670
Perth	5,254	12,347	2.35	100,011	90,101	153,172	1.70	1,148,790
Peterborough	4,780	9,560	2.00	110,322	42,684	64,026	1.50	699,164
Prescott	560	1,120	2.00	10,752	65,073	97,610	1.50	663,748
Prince Edward	5,228	10,456	2.00	89,922	35,363	59,056	1.67	435,243
Rainy River	931	1,676	1.80	15,084	22,393	24,632	1.10	204,446
Renfrew	4,925	9,850	2.00	99,485	98,045	147,068	1.50	1,360,379
Russell	707	1,555	2.20	16,265	49,442	74,163	1.50	598,495
Simcoe	17,003	44,208	2.60	436,775	101,486	190,794	1.88	1,690,435
Stormont	1,046	2,249	2.15	22,715	48,281	77,250	1.60	564,698
Sudbury	116	197	1.70	2,088	26,874	33,593	1.25	330,219
Thunder Bay	300	540	1.80	5,184	21,016	29,422	1.40	264,798
Timiskaming	195	371	1.90	3,376	30,878	46,317	1.50	357,104
Victoria	4,023	8,569	2.13	98,629	55,994	75,592	1.35	841,339
Waterloo	7,885	18,372	2.33	211,645	44,513	80,123	1.80	769,181
Welland	4,428	9,299	2.10	107,868	43,674	54,593	1.25	540,471
Wellington	10,682	22,966	2.15	211,287	106,599	170,558	1.60	1,291,124
Wentworth	10,273	22,087	2.15	268,578	34,680	50,286	1.45	522,472
York	24,993	56,234	2.25	607,890	58,485	111,122	1.90	1,065,660
The Province:								
1931	431,110	971,304	2.25	9,816,770	2,858,923	4,615,372	1.61	38,906,045
1930	641,686	1,409,528	2.20	16,065,846	2,849,702	4,353,094	1.53	45,365,729

1931 Alfalfa acreage is compiled from the Decennial Census.

CARROTS—ALL FIELD CROPS

TABLE XVII.—Showing by County Municipalities of Ontario the area, produce and market value of Carrots and all Field Crops enumerated in Tables VII to XVII for the year 1931, together with the comparative totals for the Province of 1930.

Counties and Districts	Carrots				All Field Crops		
	Acres	Bushels	Per acre	Market value $	Acres	Value $	Per acre $ c.
Algoma	21	2,352	112	235	55,529	662,007	11.92
Brant	16	1,600	100	160	139,913	2,035,649	14.55
Bruce	65	6,500	100	650	310,084	3,557,207	11.47
Carleton	126	17,010	135	1,701	232,240	3,063,507	13.19
Cochrane	13	1,300	100	130	24,430	347,122	14.21
Dufferin	1	100	100	10	181,662	2,059,178	11.34
Dundas	9	1,125	125	112	119,512	1,557,434	13.03
Durham	41	5,125	125	512	179,237	2,209,031	12.32
Elgin	23	3,910	170	391	215,462	3,046,549	14.14
Essex	288	43,200	150	4,320	246,114	4,021,335	16.34
Frontenac	53	6,625	125	663	133,188	1,733,144	13.01
Glengarry	16	2,000	125	200	128,593	1,464,025	11.38
Grenville	37	4,625	125	463	101,423	1,462,309	14.42
Grey	27	2,700	100	270	413,770	4,881,381	11.80
Haldimand	9	1,125	125	113	160,428	2,137,370	13.32
Haliburton	25	2,500	100	250	24,822	294,805	11.88
Halton	97	9,700	100	970	111,522	1,663,513	14.92
Hastings	107	17,120	160	1,712	233,669	3,264,664	13.97
Huron	44	4,400	100	440	395,921	5,114,599	12.92
Kenora	5	500	100	50	13,125	247,486	18.86
Kent	87	13,050	150	1,305	352,343	5,904,512	16.76
Lambton	83	8,300	100	830	291,976	4,001,249	13.70
Lanark	42	5,460	130	546	152,637	2,248,507	14.73
Leeds	33	4,620	140	462	153,108	2,265,262	14.80
Lennox and Addington	29	4,350	150	435	135,689	1,501,775	11.07
Lincoln	73	14,600	200	1,460	87,290	1,362,202	15.61
Manitoulin	2	200	100	20	42,636	482,595	11.32
Middlesex	64	10,880	170	1,088	341,177	4,987,092	14.62
Muskoka	35	4,550	130	455	43,023	610,918	14.20
Nipissing	24	2,400	100	240	56,556	777,247	13.74
Norfolk	161	22,540	140	2,254	143,050	2,048,559	14.32
Northumberland	56	7,000	125	700	197,531	2,591,133	13.12
Ontario	106	13,780	130	1,378	244,514	3,500,515	14.32
Oxford	6	600	100	60	265,945	4,563,304	17.16
Parry Sound	45	5,400	120	540	60,751	809,601	13.33
Peel	296	47,360	160	4,736	154,106	2,311,180	15.00
Perth	18	2,700	150	270	302,236	4,107,987	13.59
Peterborough	57	5,700	100	570	138,366	1,898,565	13.72
Prescott	28	3,500	125	350	140,955	1,496,827	10.62
Prince Edward	22	2,640	120	264	110,599	1,131,333	10.23
Rainy River	17	1,700	100	170	42,993	434,193	10.10
Renfrew	75	9,375	125	938	238,298	2,732,336	11.47
Russell	34	4,080	120	408	114,805	1,410,460	12.29
Simcoe	89	17,800	200	1,780	422,356	5,996,724	14.20
Stormont	15	2,250	150	225	102,992	1,319,686	12.81
Sudbury	83	8,300	100	830	55,806	657,306	11.78
Thunder Bay	92	9,200	100	920	37,277	530,235	14.22
Timiskaming	71	7,100	100	710	60,111	678,092	11.28
Victoria	29	3,625	125	362	191,257	2,465,399	12.89
Waterloo	22	2,200	100	220	194,514	3,006,663	15.46
Welland	68	6,800	100	680	102,492	1,347,732	13.15
Wellington	25	3,500	140	350	360,161	4,708,106	13.07
Wentworth	111	11,100	100	1,110	137,333	2,043,586	14.88
York	158	36,340	230	3,634	280,535	4,466,390	15.92
The Province:							
1931	3,179	436,517	137	43,652	9,176,062	125,219,586	13.65
1930	1,772	236,642	134	47,328	10,009,097	173,498,548	17.33

PASTURE, FALLOW, ORCHARD, SMALL FRUITS

TABLE XVIII.—Showing by County Municipalities the area in Cleared Pasture, Summer Fallow, Orchards and Small Fruits in 1931, together with totals for the Province for the past five years; also the number of silos in each county in 1931.

Counties and Districts	Cleared pasture	Summer fallow	Orchard	Small fruits	Total	Number of silos
	Acres	Acres	Acres	Acres	Acres	
Algoma	10,598	714	327	196	11,835	25
Brant	25,212	3,573	3,499	553	32,837	1,110
Bruce	139,951	13,479	6,826	278	160,534	881
Carleton	90,504	385	1,617	278	92,784	1,643
Cochrane	3,724	31	....	7	3,762	....
Dufferin	57,492	4,907	1,745	76	64,220	199
Dundas	42,857	396	1,842	230	45,325	874
Durham	59,837	4,388	7,612	278	72,115	824
Elgin	73,936	3,484	6,089	606	84,115	1,409
Essex	37,070	1,563	5,370	1,616	45,619	462
Frontenac	72,976	250	1,446	222	74,894	473
Glengarry	46,766	146	876	102	47,890	609
Grenville	52,396	427	1,126	212	54,161	582
Grey	142,484	11,665	9,612	643	164,404	1,118
Haldimand	36,551	9,906	4,114	290	50,861	490
Haliburton	11,139	166	110	40	11,455	....
Halton	28,299	4,192	5,180	828	38,499	667
Hastings	101,987	2,257	3,580	374	108,198	462
Huron	160,496	10,214	11,105	696	182,511	1,298
Kenora	994	15	....	7	1,016	4
Kent	70,971	2,738	6,124	824	80,657	768
Lambton	128,452	5,680	8,659	635	143,426	1,221
Lanark	114,659	413	1,333	233	116,638	1,252
Leeds	81,399	212	1,332	258	83,201	1,334
Lennox and Addington	72,418	1,837	2,131	438	76,824	328
Lincoln	17,678	4,385	10,593	11,516	44,172	761
Manitoulin	11,876	81	150	15	12,122	26
Middlesex	181,598	6,292	10,161	1,025	199,076	2,497
Muskoka	16,904	838	247	90	18,079	71
Nipissing	14,095	52	25	19	14,191	....
Norfolk	40,712	4,574	7,447	2,133	54,866	1,161
Northumberland	67,754	2,881	10,392	753	81,780	842
Ontario	69,946	4,449	4,809	442	79,646	1,434
Oxford	75,731	3,668	7,014	493	86,906	2,508
Parry Sound	15,827	529	109	89	16,554	15
Peel	45,587	9,663	6,236	970	62,456	739
Perth	88,670	13,142	5,228	273	107,313	1,455
Peterborough	59,245	4,204	2,059	364	65,872	642
Prescott	54,701	99	562	172	55,534	654
Prince Edward	40,546	1,642	4,904	661	47,753	237
Rainy River	6,411	421	1	28	6,861	....
Renfrew	87,613	1,944	1,167	217	90,941	558
Russell	39,481	32	675	229	40,417	668
Simcoe	102,327	28,541	7,771	810	139,449	1,168
Stormont	45,837	94	1,161	151	47,243	854
Sudbury	12,568	199	11	140	12,918	14
Thunder Bay	5,514	66	138	175	5,893	25
Timiskaming	7,826	608	2	40	8,476	7
Victoria	60,790	3,332	1,444	219	65,785	732
Waterloo	26,986	6,483	4,092	318	37,879	1,514
Welland	23,083	8,605	6,011	2,925	40,624	654
Wellington	79,156	10,952	4,663	204	94,975	1,159
Wentworth	23,696	4,690	8,583	3,096	40,065	1,198
York	53,700	15,670	5,921	524	75,815	1,536
The Province:						
1931	3,039,026	221,174	203,231	*38,011	3,501,442	41,162
1930	3,149,460	247,067	212,232	*31,248	3,640,007	41,742
1929	3,134,614	247,802	214,370	*31,235	3,628,021	41,678
1928	3,000,172	211,015	207,003	*29,361	3,447,551	41,115
1927	3,012,786	212,906	211,225	*29,178	3,466,095	39,996

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*Including 8,012 acres in strawberries and 15,793 in vineyards in 1931; and 7,286 acres in strawberries and 11,586 in vineyards in 1930; and 7,613 in strawberries and 11,255 in vineyards in 1929; and 7,773 acres in strawberries and 8,855 in vineyards in 1928; and 7,836 acres in strawberries and 7,905 in vineyards in 1927.

MARKET PRICES

TABLE XIX.—The following table shows by Counties the average prices of agricultural products for 1931, together with the average prices for 1930.

Counties and Districts	Fall Wheat, per bush.	Spring Wheat per bush.	Oats, per bush.	Barley, per bush.	Peas, per bush.	Beans, per bush.	Rye, per bush.	Buckwheat, per bush.	Corn (in ear), per bush.	Hay, per ton.	Potatoes, per bush.
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
Algoma	58.0	57.0	27.5	41.0	60.8	56.0	43.5	43.5	21.0	8.24	26.0
Brant	46.3	43.0	23.5	32.8	65.0	60.0	41.0	35.0	26.0	9.62	27.0
Bruce	54.6	51.8	25.9	36.2	61.2	58.5	44.0	41.1	26.6	6.96	21.6
Carleton	59.0	51.6	25.0	40.7	65.4	56.8	41.8	45.0	27.4	7.97	25.4
Cochrane	60.0	59.0	29.0	42.0	61.0	.....	43.0	42.0	20.0	10.13	28.8
Dufferin	54.4	52.4	24.5	32.8	56.9	56.0	40.0	41.3	25.7	8.13	18.0
Dundas	58.5	53.5	27.9	40.2	61.3	61.0	40.0	48.0	26.6	6.60	26.0
Durham	55.5	51.3	24.8	36.6	65.0	62.5	40.9	40.1	27.0	8.73	18.9
Elgin	49.8	47.5	21.9	33.4	55.0	58.1	40.7	41.3	27.0	7.44	27.1
Essex	46.7	46.0	23.3	38.2	56.5	56.5	43.8	43.2	27.0	9.69	26.1
Frontenac	58.0	53.5	25.8	34.5	63.0	59.0	44.0	42.3	28.0	7.79	28.5
Glengarry	57.0	52.3	26.3	40.3	63.1	58.5	43.0	44.5	27.6	6.74	28.0
Grenville	59.0	53.0	27.9	40.9	59.0	62.5	42.3	46.9	30.0	7.71	28.0
Grey	55.9	50.0	24.9	38.1	69.2	56.3	42.0	41.1	24.6	7.41	17.7
Haldimand	54.0	51.2	22.5	31.9	65.0	56.0	44.0	41.5	27.3	8.40	28.0
Haliburton	56.0	55.0	26.0	36.0	60.0	62.0	40.0	40.0	21.6	10.50	30.0
Halton	55.8	50.0	27.9	38.6	64.0	56.0	41.0	42.0	27.3	10.56	19.1
Hastings	57.0	52.5	27.1	40.0	64.5	58.8	40.0	44.9	27.4	9.53	26.7
Huron	51.6	48.3	24.5	35.4	69.9	57.5	44.0	40.9	26.0	7.15	21.2
Kenora	59.0	58.0	28.0	35.5	62.5	.....	40.0	42.0	.....	8.94	27.6
Kent	47.3	43.4	20.9	35.2	56.0	57.5	42.0	43.1	25.3	8.07	24.0
Lambton	49.6	48.7	20.9	32.9	57.0	55.5	43.2	43.0	27.0	7.80	23.9
Lanark	56.5	50.0	27.6	40.8	64.8	55.5	41.0	46.0	26.6	9.63	26.0
Leeds	60.0	53.0	28.8	40.8	60.0	59.0	41.5	48.5	28.4	8.39	27.3
Lennox and Addington	56.0	50.0	28.0	39.5	66.0	57.0	42.0	48.1	28.5	6.68	25.0
Lincoln	51.7	50.7	24.3	35.3	67.0	58.0	41.5	46.0	27.0	10.00	25.5
Manitoulin	57.5	56.0	26.5	40.5	60.5	56.0	41.0	41.0	21.4	7.25	25.0
Middlesex	53.5	49.0	23.4	31.7	69.0	59.3	41.3	40.8	27.0	7.77	26.3
Muskoka	58.0	56.5	27.0	39.7	60.5	60.5	40.0	45.5	23.6	11.30	28.2
Nipissing	60.0	59.0	27.5	41.5	58.0	60.8	44.0	43.0	21.6	11.31	25.6
Norfolk	53.3	51.7	22.5	33.0	58.3	56.3	44.8	36.3	27.2	9.61	25.0
Northumberland	53.3	50.0	24.0	39.0	63.0	56.5	40.5	40.8	26.8	8.80	25.8
Ontario	57.9	50.0	26.4	35.8	62.5	57.0	42.8	40.9	26.6	9.12	17.9
Oxford	53.9	50.0	23.1	35.6	61.0	53.5	40.0	44.1	25.6	9.45	28.0
Parry Sound	57.0	56.4	28.0	42.3	59.5	62.0	43.0	44.0	22.4	10.90	25.9
Peel	54.9	50.0	27.9	38.7	61.0	54.0	40.0	46.3	26.0	10.38	19.8
Perth	55.0	49.6	25.7	37.0	64.6	57.0	40.0	39.9	25.8	7.50	24.0
Peterborough	53.6	50.0	27.0	37.4	62.0	57.0	43.0	42.7	25.6	10.92	27.8
Prescott	57.1	50.0	24.4	40.1	62.8	57.5	42.5	48.0	30.0	6.80	27.5
Prince Edward	52.5	51.0	21.3	34.8	64.1	56.5	43.1	40.0	26.6	7.37	25.5
Rainy River	59.0	58.0	28.5	35.0	62.0	63.8	40.0	42.0	20.0	8.30	25.4
Renfrew	56.4	50.0	25.7	38.0	59.1	59.5	39.0	37.4	26.6	9.25	29.5
Russell	55.0	50.5	25.1	40.3	63.9	62.5	40.4	44.5	27.0	8.07	25.5
Simcoe	52.8	50.4	25.7	35.7	61.9	65.1	41.3	43.5	25.4	8.86	19.5
Stormont	60.0	54.4	28.5	40.7	62.4	66.0	42.0	48.9	28.0	7.31	26.5
Sudbury	59.0	58.0	28.0	40.0	59.8	64.0	42.0	40.5	23.4	9.83	25.2
Thunder Bay	57.0	56.0	27.0	38.4	59.0	65.4	40.0	42.0	20.6	9.00	29.0
Timiskaming	60.1	50.7	29.0	42.5	61.0	65.1	43.0	41.5	20.0	7.71	30.0
Victoria	56.0	52.5	27.7	35.0	61.5	60.0	42.7	40.9	25.4	11.13	24.6
Waterloo	55.2	49.0	24.1	36.8	61.7	62.1	44.0	44.9	26.2	9.60	25.9
Welland	51.7	45.0	24.4	36.0	60.0	66.0	42.5	44.0	28.0	9.90	27.5
Wellington	55.2	50.0	24.6	35.8	68.8	62.5	44.5	42.6	26.6	7.57	20.0
Wentworth	56.5	55.0	24.2	35.2	66.7	63.0	41.9	41.1	25.4	10.39	23.5
York	52.3	49.1	26.0	35.9	68.0	62.5	43.5	42.3	25.4	9.59	22.3
The Province											
1931	51.6	50.9	25.0	36.5	62.6	57.9	41.9	42.3	26.5	8.43	23.6
1930	66.3	65.5	29.7	35.9	104.8	144.0	48.5	51.7	46.2	10.42	59.7

HORSES ON HAND

TABLE XX.—Showing by County Municipalities the number and value of Horses on hand, June 15th, 1931, together with the totals for the Province for the past five years.

Counties and Districts	Stallions, 2 yrs. old and over	Mares, 2 yrs. old and over	Geldings, 2 yrs. old and over	Colts and Fillies, under 2 years	Total Horses	
					Number	Value
						$
Algoma	17	1,955	1,933	259	4,164	446,662
Brant	39	4,321	3,863	718	8,941	811,195
Bruce	60	9,894	8,471	2,298	20,723	1,605,313
Carleton	85	6,954	6,209	1,440	14,688	1,272,402
Cochrane	20	1,704	2,052	107	3,883	539,984
Dufferin	50	5,116	4,326	916	10,408	852,436
Dundas	30	3,917	3,521	766	8,234	666,876
Durham	40	5,667	4,584	908	11,199	959,605
Elgin	43	6,173	5,401	1,019	12,636	1,111,403
Essex	100	7,010	6,302	1,106	14,518	1,399,023
Frontenac	50	4,398	4,002	792	9,242	749,689
Glengarry	40	3,635	3,486	666	7,827	690,686
Grenville	21	3,097	2,756	407	6,281	476,461
Grey	83	12,548	11,013	2,333	25,977	2,102,964
Haldimand	20	4,230	3,696	727	8,673	763,541
Haliburton	6	758	712	82	1,558	147,770
Halton	35	3,198	2,747	442	6,422	631,675
Hastings	57	6,778	6,409	992	14,236	1,262,886
Huron	56	12,286	9,979	2,585	24,906	1,923,663
Kenora	6	532	768	18	1,324	132,606
Kent	105	9,382	8,627	1,967	20,081	1,865,609
Lambton	96	8,584	7,035	1,979	17,694	1,453,526
Lanark	40	4,469	3,879	877	9,265	750,313
Leeds	31	4,875	4,729	902	10,537	861,723
Lennox and Addington	51	4,014	3,878	665	8,608	690,560
Lincoln	47	2,943	2,950	250	6,190	583,748
Manitoulin	10	1,632	1,444	497	3,583	329,002
Middlesex	119	11,538	9,127	2,353	23,137	1,858,889
Muskoka	15	1,418	1,347	163	2,943	295,395
Nipissing	41	1,663	1,792	225	3,721	419,660
Norfolk	46	5,104	4,731	653	10,534	912,354
Northumberland	31	6,169	5,614	929	12,743	1,145,679
Ontario	42	7,519	6,026	1,071	14,658	1,287,302
Oxford	51	8,353	7,362	1,166	16,932	1,484,869
Parry Sound	27	2,115	2,052	269	4,463	472,730
Peel	49	4,730	3,597	848	9,224	835,458
Perth	58	9,712	8,194	1,918	19,882	1,629,923
Peterborough	51	4,467	4,026	741	9,285	834,515
Prescott	76	3,731	3,311	809	7,927	640,574
Prince Edward	17	3,277	2,981	393	6,668	610,979
Rainy River	13	1,193	1,280	128	2,614	233,850
Renfrew	81	7,133	6,200	1,378	14,792	1,430,164
Russell	42	3,331	2,729	728	6,830	569,782
Simcoe	117	12,775	11,247	2,079	26,218	2,326,206
Stormont	26	3,167	3,043	579	6,815	554,252
Sudbury	40	1,875	1,981	210	4,106	466,571
Thunder Bay	46	997	1,789	49	2,881	287,055
Timiskaming	21	1,754	1,891	174	3,840	494,395
Victoria	35	5,524	4,552	893	11,004	914,979
Waterloo	43	6,028	5,480	1,108	12,659	1,063,202
Welland	37	2,712	2,695	333	5,777	527,364
Wellington	88	10,022	8,763	1,905	20,778	1,692,388
Wentworth	16	4,406	4,254	450	9,126	828,850
York	76	8,211	7,388	1,127	16,802	1,629,866
The Province						
1931	2,542	278,994	248,224	48,397	578,157	50,528,572
1930	3,362	308,328	242,972	52,057	606,719	60,606,827
1929	3,396	310,856	240,893	51,360	606,505	66,603,793
1928	3,388	314,798	241,319	49,744	609,249	67,085,352
1927	3,568	320,990	246,639	45,939	617,136	66,724,527

CATTLE ON HAND

TABLE XXI.—Showing by County Municipalities the number of Cattle on hand, June 15th, 1931, together with the totals for the Province for the past five years.

Counties and Districts	Bulls for breeding	Cows for milk purposes	Cows for beef purposes	Yearlings for milk purposes	Yearlings for beef purposes	Calves	All other cattle
Algoma	388	9,340	420	1,884	2,478	5,117	1,142
Brant	779	15,289	571	3,540	1,432	6,469	686
Bruce	1,397	36,164	3,188	5,769	20,333	24,409	14,423
Carleton	2,121	40,415	1,904	9,047	3,970	15,845	4,086
Cochrane	482	4,178	248	1,269	253	2,652	97
Dufferin	542	14,554	1,475	2,623	8,934	10,184	3,008
Dundas	1,795	24,595	4,004	5,855	77	7,942	15
Durham	646	16,473	1,892	3,124	5,677	9,336	2,783
Elgin	1,292	26,742	1,027	6,068	3,687	11,451	3,172
Essex	621	16,355	1,025	3,573	763	6,181	306
Frontenac	1,927	32,654	1,114	6,327	2,166	11,762	1,013
Glengarry	1,936	27,548	735	6,304	249	8,110	28
Grenville	1,211	18,449	454	4,171	111	5,401	69
Grey	1,600	43,408	4,557	7,374	24,689	30,076	10,214
Haldimand	735	14,993	432	3,393	2,234	7,670	653
Haliburton	153	3,622	167	561	1,262	2,443	442
Halton	747	12,993	963	2,900	1,999	6,316	920
Hastings	2,556	40,498	1,731	8,740	2,494	18,267	1,404
Huron	1,574	38,966	4,186	7,579	20,080	26,734	11,303
Kenora	107	1,438	29	319	90	743	28
Kent	684	18,601	2,609	3,966	5,875	11,204	5,915
Lambton	1,005	27,637	2,502	4,662	13,339	18,612	7,091
Lanark	1,266	25,508	2,188	5,179	6,539	13,827	4,227
Leeds	2,361	41,966	596	9,367	727	12,603	303
Lennox and Addington	1,268	23,922	588	4,891	2,086	9,717	1,279
Lincoln	399	8,376	331	1,678	420	3,285	103
Manitoulin	256	7,401	456	1,135	4,026	5,106	1,947
Middlesex	1,965	47,135	3,385	9,614	12,849	22,897	11,437
Muskoka	288	6,585	405	1,436	1,128	3,596	492
Nipissing	917	9,696	685	2,649	1,329	6,841	341
Norfolk	833	16,947	470	3,725	591	6,092	191
Northumberland	1,354	24,066	1,646	6,185	3,905	11,740	1,717
Ontario	1,171	24,614	2,888	5,181	7,936	14,685	3,193
Oxford	2,571	47,986	1,382	10,593	3,664	16,391	1,748
Parry Sound	476	10,394	559	1,960	3,281	6,573	1,204
Peel	1,008	19,958	788	4,250	1,954	7,637	1,433
Perth	1,883	39,309	2,025	9,607	10,449	22,200	3,751
Peterborough	956	19,840	913	4,355	3,877	10,234	1,843
Prescott	2,017	26,255	618	6,538	381	9,175	49
Prince Edward	836	14,663	454	3,118	275	5,360	111
Rainy River	252	4,065	209	1,085	905	2,462	219
Renfrew	2,016	31,553	3,197	6,895	10,473	20,591	6,531
Russell	1,810	20,964	604	5,064	710	8,535	72
Simcoe	1,412	39,140	2,811	8,244	14,913	23,674	5,239
Stormont	1,697	25,055	616	5,271	186	7,119	30
Sudbury	987	9,578	833	2,817	984	6,429	216
Thunder Bay	266	5,067	82	1,347	156	2,515	26
Timiskaming	588	7,416	524	1,976	1,572	4,753	323
Victoria	745	20,198	1,852	4,064	9,350	12,051	6,841
Waterloo	1,082	20,350	716	4,524	4,028	11,859	1,321
Welland	419	9,306	288	1,750	571	3,712	133
Wellington	1,352	29,496	3,424	5,333	14,790	21,064	3,481
Wentworth	849	15,785	675	3,386	1,349	5,854	300
York	1,593	30,949	2,116	6,662	2,721	11,159	1,199
The Province							
1931	61,191	*1,168,455	73,557	248,927	250,317	576,660	130,098
1930	64,935	*1,222,603	72,252	278,037	266,766	577,446	193,449
1929	64,323	*1,237,248	69,685	271,668	265,359	575,522	187,789
1928	64,221	*1,261,384	70,139	264,624	261,586	576,766	183,333
1927	65,636	*1,294,840	70,890	263,791	271,435	557,706	185,656

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*Including dual purpose cows.

TOTAL CATTLE AND SHEEP ON HAND

TABLE XXII.—Showing by County Municipalities the number and value of Cattle on hand, June 15th, 1931, together with the totals for the Province for the past five years.

Counties and Districts	Total Cattle		Sheep and Lambs				
	Number	Value	Ewes for breeding	1 year and over	Under 1 year	Total sheep and lambs	
						Number	Value
		$					$
Algoma	20,769	750,799	5,366	1,079	6,162	12,607	76,541
Brant	28,766	1,324,224	3,796	582	4,099	8,477	58,830
Bruce	105,683	3,790,324	25,124	3,112	29,706	57,942	374,473
Carleton	77,388	2,655,456	10,685	1,742	11,833	24,260	150,796
Cochrane	9,179	413,620	654	211	696	1,561	13,567
Dufferin	41,320	1,402,444	14,423	2,364	18,383	35,170	229,150
Dundas	44,283	1,802,498	2,224	274	2,057	4,555	29,497
Durham	39,931	1,484,349	11,375	2,340	12,465	26,180	158,603
Elgin	53,439	2,220,426	10,465	1,468	12,394	24,327	153,212
Essex	28,824	1,326,331	5,507	854	6,544	12,905	77,280
Frontenac	56,963	1,610,902	7,313	1,165	8,326	16,804	95,582
Glengarry	44,910	1,677,059	2,272	707	2,532	5,511	29,289
Grenville	29,866	1,043,841	4,798	595	4,927	10,320	59,728
Grey	121,918	4,086,716	40,124	3,983	47,138	91,245	591,986
Haldimand	30,110	1,161,909	6,059	793	7,619	14,471	87,994
Haliburton	8,650	227,555	1,726	304	1,636	3,666	19,208
Halton	26,838	1,250,218	4,929	709	5,674	11,312	79,346
Hastings	75,690	2,191,161	14,199	1,951	15,269	31,419	175,455
Huron	110,422	4,072,302	14,424	1,777	16,832	33,033	230,211
Kenora	2,754	127,599	476	190	426	1,092	9,085
Kent	48,854	1,879,640	6,408	1,015	7,386	14,809	97,708
Lambton	74,848	2,810,340	16,867	1,802	20,093	38,762	256,895
Lanark	58,734	1,677,133	15,595	2,372	16,437	34,404	210,053
Leeds	67,923	2,188,608	6,478	1,068	6,962	14,508	87,433
Lennox&Add'gton	43,751	1,205,038	4,598	478	4,914	9,990	57,640
Lincoln	14,592	742,605	2,587	339	2,824	5,750	42,167
Manitoulin	20,327	611,565	10,037	1,093	11,212	22,342	123,054
Middlesex	109,282	4,428,026	12,135	2,956	14,991	30,082	227,399
Muskoka	13,930	456,758	3,132	695	3,380	7,207	45,629
Nipissing	22,458	600,656	4,264	921	4,726	9,911	50,985
Norfolk	28,849	1,209,181	3,115	536	3,444	7,095	44,550
Northumberland	50,613	1,661,253	7,112	1,742	8,445	17,299	113,580
Ontario	59,668	2,361,276	15,799	2,788	17,419	36,006	251,469
Oxford	84,335	4,078,097	4,661	613	5,419	10,693	73,367
Parry Sound	24,447	760,138	8,212	1,541	8,709	18,462	105,473
Peel	37,028	1,814,066	7,605	1,163	9,495	18,263	116,825
Perth	89,224	3,377,651	5,600	1,115	7,041	13,756	95,241
Peterborough	42,018	1,359,188	5,965	1,264	6,847	14,076	88,358
Prescott	45,033	1,365,453	2,001	578	2,563	5,142	27,290
Prince Edward	24,817	951,244	4,065	803	4,517	9,385	54,215
Rainy River	9,197	300,503	4,184	464	4,604	9,252	54,271
Renfrew	81,256	2,075,328	29,346	5,058	30,523	64,927	336,637
Russell	37,759	1,158,761	2,517	461	2,751	5,729	30,089
Simcoe	95,433	3,218,732	26,018	3,867	28,379	58,264	375,542
Stormont	39,974	1,534,849	1,504	245	1,507	3,256	19,687
Sudbury	21,844	612,171	3,411	869	3,505	7,785	52,659
Thunder Bay	9,459	435,027	376	95	407	878	6,973
Timiskaming	17,152	617,190	5,347	783	5,043	11,173	81,234
Victoria	55,101	1,771,111	14,340	2,154	14,773	31,267	205,356
Waterloo	43,880	1,857,079	3,032	367	3,515	6,914	45,124
Welland	16,179	774,432	2,362	309	2,373	5,044	36,273
Wellington	78,940	3,101,013	17,905	2,343	20,697	40,945	294,351
Wentworth	28,198	1,483,676	3,910	538	4,561	9,009	58,204
York	56,399	2,736,896	11,332	1,651	12,130	25,113	186,543
The Province							
1931	2,509,205	91,834,417	457,759	70,286	516,310	1,044,355	6,652,107
1930	2,675,488	136,496,344	509,511	79,090	545,856	1,134,457	10,835,770
1929	2,671,594	150,480,760	508,750	77,131	544,514	1,130,395	12,457,554
1928	2,682,053	128,937,680	461,137	68,292	484,677	1,014,106	11,209,872
1927	2,709,954	117,162,152	431,307	63,622	461,338	956,267	10,433,761

SWINE ON HAND

TABLE XXIII.—Showing by County Municipalities the number and value of Swine on hand, June 15, 1931, together with the totals for the Province for the past five years.

Counties and Districts	Brood Sows	Other Swine		Total Swine	
		Six mos. and over	Under six mos.	Number	Value
Algoma	807	315	4,470	5,592	48,494
Brant	2,050	1,241	12,012	15,303	158,099
Bruce	5,557	5,010	36,330	46,897	450,202
Carleton	3,395	1,412	23,340	28,147	209,100
Cochrane	727	346	2,950	4,023	49,133
Dufferin	3,484	4,041	24,312	31,837	285,138
Dundas	2,193	1,517	14,927	18,637	147,959
Durham	2,679	2,519	18,086	23,284	199,873
Elgin	3,392	2,225	20,725	26,342	235,826
Essex	6,051	6,644	34,138	46,833	348,157
Frontenac	2,170	1,165	14,213	17,548	133,991
Glengarry	2,170	1,337	14,010	17,517	131,423
Grenville	1,259	471	7,855	9,585	74,979
Grey	7,683	8,064	50,418	66,165	593,954
Haldimand	1,769	1,434	12,053	15,256	148,561
Haliburton	234	147	1,434	1,815	14,524
Halton	1,702	1,598	10,954	14,254	138,561
Hastings	4,549	2,824	30,213	37,586	324,780
Huron	8,173	7,480	56,796	72,449	698,815
Kenora	198	119	1,017	1,334	14,566
Kent	8,261	9,669	50,891	68,821	519,000
Lambton	5,718	5,036	38,316	49,070	414,160
Lanark	1,910	698	12,712	15,320	106,637
Leeds	2,509	1,378	17,053	20,940	138,591
Lennox and Addington	1,930	847	13,695	16,472	138,858
Lincoln	957	716	5,225	6,898	70,114
Manitoulin	695	499	3,713	4,907	30,655
Middlesex	5,047	3,075	34,368	42,490	404,892
Muskoka	336	190	1,941	2,467	25,682
Nipissing	1,348	591	6,652	8,591	66,222
Norfolk	1,881	1,216	10,608	13,705	129,942
Northumberland	3,687	1,821	23,416	28,924	242,492
Ontario	4,653	4,677	27,910	37,240	348,888
Oxford	4,863	3,359	30,318	38,540	382,618
Parry Sound	749	322	3,948	5,019	43,327
Peel	2,225	2,426	13,697	18,348	178,294
Perth	7,969	7,415	56,636	72,020	707,856
Peterborough	1,848	1,020	12,476	15,344	128,243
Prescott	2,852	1,600	17,530	21,982	153,675
Prince Edward	1,663	678	10,451	12,792	118,738
Rainy River	487	243	2,368	3,098	31,507
Renfrew	3,986	2,417	23,075	29,478	191,392
Russell	2,637	1,438	16,109	20,184	144,545
Simcoe	7,690	8,411	48,029	64,130	579,209
Stormont	1,961	971	13,922	16,854	127,611
Sudbury	1,451	863	5,886	8,200	75,759
Thunder Bay	579	225	2,303	3,107	39,425
Timiskaming	821	315	4,030	5,166	52,707
Victoria	2,976	2,749	19,882	25,607	219,615
Waterloo	4,855	6,198	31,668	42,721	438,583
Welland	985	1,094	5,674	7,753	76,540
Wellington	7,651	7,441	50,392	65,484	633,657
Wentworth	2,078	1,967	14,299	18,344	178,375
York	5,577	6,405	36,774	48,756	443,380
The Province					
1931	165,077	137,879	1,056,220	1,359,176	11,987,324
1930	172,251	195,788	1,293,517	1,661,556	18,643,164
1929	172,739	196,264	1,312,260	1,681,263	20,430,803
1928	195,990	230,587	1,406,961	1,833,538	19,808,890
1927	207,052	260,803	1,415,322	1,883,177	24,159,535

POULTRY ON HAND

TABLE XXIV.—Showing by County Municipalities the number and value of Poultry on hand, June 15th, 1931, together with the totals for the Province for the past five years.

Counties and Districts	Turkeys	Geese	Ducks	Other Fowls	Total Poultry	
					Number	Value
						$
Algoma	3,505	2,325	1,177	131,747	138,754	82,358
Brant	1,428	6,189	5,077	328,678	341,372	177,068
Bruce	18,983	15,555	13,207	612,572	660,317	312,413
Carleton	11,772	13,065	8,709	506,600	540,146	261,768
Cochrane	675	376	425	90,536	92,012	54,362
Dufferin	1,237	16,998	4,952	250,043	273,230	143,623
Dundas	11,716	9,773	7,235	434,192	462,916	195,505
Durham	2,947	10,814	6,839	466,611	487,211	226,877
Elgin	11,555	8,457	8,526	541,970	570,508	258,078
Essex	8,366	12,018	18,238	895,036	933,658	382,884
Frontenac	21,156	4,013	4,015	250,140	279,324	137,490
Glengarry	17,325	1,587	1,607	232,283	252,802	145,114
Grenville	7,909	3,952	2,937	222,202	237,000	125,471
Grey	8,248	25,880	15,263	709,006	758,397	374,171
Haldimand	9,265	5,941	7,058	466,829	489,093	219,826
Haliburton	1,512	471	90	26,759	28,832	14,936
Halton	2,957	7,285	4,551	327,828	342,621	165,984
Hastings	9,010	7,576	3,847	494,558	514,991	210,218
Huron	6,225	24,775	23,365	1,257,248	1,311,613	507,335
Kenora	1,060	395	348	42,272	44,075	23,342
Kent	8,238	13,996	22,523	895,556	940,313	347,673
Lambton	28,087	19,487	19,121	937,497	1,004,192	362,624
Lanark	12,512	3,378	1,701	268,396	285,987	143,186
Leeds	17,664	4,312	4,101	316,458	342,535	167,423
Lennox and Addington	5,446	2,980	2,690	278,521	289,637	124,367
Lincoln	6,409	3,201	4,869	384,977	399,456	181,595
Manitoulin	8,918	2,284	562	69,959	81,723	46,250
Middlesex	33,388	19,251	19,680	994,198	1,066,517	489,213
Muskoka	954	594	405	76,317	78,270	49,172
Nipissing	692	1,055	298	78,526	80,571	47,240
Norfolk	9,223	4,376	4,089	495,764	513,452	219,465
Northumberland	4,051	7,233	4,350	566,808	582,442	231,941
Ontario	6,608	15,638	9,597	553,873	585,716	294,228
Oxford	1,518	11,816	12,253	885,316	910,903	394,400
Parry Sound	2,147	2,231	1,287	91,939	97,604	65,286
Peel	3,521	12,250	9,559	723,116	748,446	258,385
Perth	1,552	21,560	16,672	788,238	828,022	341,824
Peterborough	11,898	5,822	2,586	341,393	361,699	161,250
Prescott	8,134	3,139	1,947	219,760	232,980	119,906
Prince Edward	3,230	2,439	3,525	209,137	218,331	105,409
Rainy River	6,158	680	394	69,464	76,696	43,809
Renfrew	13,043	7,861	3,117	330,008	354,029	179,403
Russell	1,417	6,197	1,318	233,328	242,260	116,413
Simcoe	13,657	26,482	17,941	803,053	861,133	406,696
Stormont	10,895	3,454	2,960	386,822	404,131	171,152
Sudbury	945	466	547	104,555	106,513	56,751
Thunder Bay	1,924	1,022	386	194,530	197,862	83,569
Timiskaming	1,092	1,397	912	97,272	100,673	61,603
Victoria	8,864	13,801	4,082	323,917	350,664	170,336
Waterloo	369	7,694	5,050	454,507	467,620	201,365
Welland	3,268	2,861	4,298	271,422	281,849	148,204
Wellington	990	24,386	9,286	579,708	614,370	293,961
Wentworth	2,940	5,761	5,334	435,380	449,415	220,469
York	6,358	17,721	19,799	777,364	821,242	406,534
The Province						
1931	402,961	454,270	354,705	22,524,189	23,736,125	10,729,925
1930	521,794	570,924	566,118	20,901,424	22,560,260	13,372,682
1929	510,054	587,222	590,610	20,357,205	22,045,091	13,473,814
1928	496,202	590,415	557,150	18,059,809	19,703,576	12,452,203
1927	496,164	594,593	578,721	17,378,567	19,048,045	12,333,645

FARM PROPERTY, IMPLEMENTS AND LIVE STOCK

TABLE XXV.—Showing by County Municipalities of Ontario the value of farm lands, buildings, implements and live stock for 1931, together with the totals for the Province for 1930.

Counties and Districts	Land	Buildings	Implements	Live Stock on hand	Total
	$	$	$	$	$
Algoma	3,938,889	1,694,575	879,494	1,404,854	7,917,812
Brant	12,540,375	8,015,280	2,299,862	2,529,416	25,384,933
Bruce	33,738,480	18,911,041	5,683,965	6,532,725	64,866,211
Carleton	29,044,061	14,804,265	4,943,724	4,549,522	53,341,572
Cochrane	1,687,960	465,295	227,739	1,070,666	3,451,660
Dufferin	14,328,017	9,288,799	2,562,215	2,912,791	29,091,822
Dundas	12,196,525	7,235,583	2,861,514	2,842,335	25,135,957
Durham	15,799,139	10,226,568	2,780,276	3,029,307	31,825,290
Elgin	25,479,255	14,514,927	4,580,763	3,978,945	48,553,890
Essex	42,033,521	19,584,278	5,809,441	3,533,675	70,960,915
Frontenac	10,825,727	5,432,384	2,046,833	2,727,654	21,032,598
Glengarry	13,066,840	7,063,730	2,596,761	2,673,571	25,400,902
Grenville	8,244,344	5,011,517	1,955,307	1,780,480	16,991,648
Grey	36,509,675	22,843,492	6,854,091	7,749,791	73,957,049
Haldimand	13,453,964	8,546,499	2,841,452	2,381,831	27,223,746
Haliburton	2,280,601	719,158	358,584	423,993	3,782,336
Halton	14,000,766	7,967,345	2,353,364	2,265,784	26,587,259
Hastings	19,787,528	11,266,302	4,459,120	4,164,500	39,677,450
Huron	37,226,856	23,116,176	7,366,913	7,432,326	75,142,271
Kenora	634,042	249,282	127,365	307,198	1,317,887
Kent	46,416,607	20,569,325	7,080,998	4,709,630	78,776,560
Lambton	36,144,864	17,480,429	6,303,337	5,297,545	65,226,175
Lanark	12,674,397	6,507,439	2,800,133	2,887,322	24,869,291
Leeds	14,621,567	7,624,145	2,783,791	3,443,778	28,473,281
Lennox and Addington	11,903,603	6,272,245	2,324,626	2,216,463	22,716,937
Lincoln	17,065,618	9,396,186	2,550,429	1,620,229	30,632,462
Manitoulin	3,083,042	1,020,666	433,750	1,140,526	5,677,984
Middlesex	44,475,704	25,253,187	7,658,818	7,408,419	84,796,128
Muskoka	4,589,046	1,901,432	841,438	872,636	8,204,552
Nipissing	3,916,725	1,607,249	784,514	1,184,763	7,493,251
Norfolk	17,600,886	9,487,925	3,405,497	2,515,492	33,009,800
Northumberland	17,203,754	11,133,798	3,700,000	3,394,945	35,432,497
Ontario	23,922,025	15,678,096	4,683,528	4,543,163	48,826,812
Oxford	27,462,972	18,675,446	5,784,575	6,413,351	58,336,344
Parry Sound	4,098,114	1,984,432	909,332	1,446,954	8,438,832
Peel	20,682,610	12,369,950	3,519,512	3,203,028	39,775,100
Perth	28,342,509	20,512,720	5,902,209	6,152,495	60,909,933
Peterborough	15,387,326	7,844,005	2,603,991	2,571,554	28,406,876
Prescott	14,159,360	6,929,643	2,471,867	2,306,898	25,867,768
Prince Edward	9,190,239	5,618,473	2,397,445	1,840,585	19,046,742
Rainy River	3,721,336	1,172,372	610,707	663,940	6,168,355
Renfrew	18,654,454	8,237,208	3,925,392	4,212,924	35,029,978
Russell	11,230,642	5,533,026	1,990,001	2,019,590	20,773,259
Simcoe	41,601,254	23,682,379	7,721,738	6,906,385	79,911,756
Stormont	9,741,935	6,464,198	2,400,180	2,407,551	21,013,864
Sudbury	5,003,403	1,803,660	922,470	1,263,911	8,993,444
Thunder Bay	4,091,849	1,467,471	636,890	852,049	7,048,259
Timiskaming	5,557,911	1,869,479	1,015,716	1,307,129	9,750,235
Victoria	17,204,810	8,660,544	2,905,700	3,281,397	32,052,451
Waterloo	18,051,947	13,338,942	3,300,365	3,605,353	38,296,607
Welland	15,000,210	9,020,972	2,600,536	1,562,813	28,184,531
Wellington	28,483,902	20,873,055	5,558,722	6,015,370	60,931,049
Wentworth	18,587,242	10,600,595	3,253,080	2,769,574	35,210,491
York	38,181,330	19,731,982	5,806,264	5,403,219	69,122,795
The Province					
1931	954,869,758	537,279,170	175,176,334	171,732,345	1,839,057,607
1930	962,861,922	540,570,877	177,648,862	239,954,787	1,921,036,448

PART II—CHATTEL MORTGAGES

Table showing by County Municipalities of Ontario the total number and amount of Chattel Mortgages on record and undischarged on December 31st, for the years 1929, 1930 and 1931, together with totals for the Province for all occupations as well as for "farmers," as far as given in the records.

Counties and Districts	1931		1930		1929	
	No.	Amount	No.	Amount	No.	Amount
		$		$		$
Algoma	166	354,882	142	376,164	184	413,721
Brant	378	352,642	329	269,588	322	186,695
Bruce	339	346,809	239	245,372	181	171,669
Carleton	758	721,976	619	555,654	555	587,663
Cochrane	248	294,042	219	535,854	238	234,210
Dufferin	154	204,781	114	154,644	70	79,456
Elgin	327	418,982	234	295,937	270	355,837
Essex	2,994	603,371	2,500	1,159,714	2,417	2,142,620
Frontenac	268	220,714	201	206,539	228	274,840
Grey	368	418,003	273	296,304	242	269,461
Haldimand	174	231,056	120	157,891	126	131,933
Haliburton	32	21,949	30	26,108	35	28,811
Halton	142	278,042	108	157,765	89	116,480
Hastings	419	681,668	336	545,515	301	428,960
Huron	347	423,947	216	335,126	173	228,630
Kenora	56	77,451	79	159,384	50	98,620
Kent	620	794,776	435	534,048	438	482,242
Lambton	283	318,909	205	264,532	163	244,823
Lanark	149	184,873	105	115,536	114	126,171
Leeds and Grenville	331	368,579	261	325,414	227	303,589
Lennox and Addington	142	326,495	124	308,094	114	296,072
Lincoln	273	294,824	205	373,697	178	255,231
Manitoulin	84	88,232	79	86,260	73	85,776
Middlesex	793	605,594	718	560,297	763	585,492
Muskoka	99	179,348	95	226,707	98	232,148
Nipissing	254	315,579	211	281,170	223	333,067
Norfolk	245	285,035	166	175,172	160	232,058
Northumberland and Durham	384	487,596	283	388,411	271	389,288
Ontario	378	551,559	283	323,938	313	323,713
Oxford	298	293,142	223	306,890	169	236,846
Parry Sound	181	258,630	172	226,778	164	164,230
Peel	117	141,458	54	44,998	63	100,009
Perth	383	358,342	210	217,501	203	237,750
Peterborough	220	232,255	156	208,519	162	200,455
Prescott and Russell	463	610,897	341	540,780	285	352,051
Prince Edward	201	267,952	158	189,408	131	148,340
Rainy River	133	103,270	120	137,210	95	89,215
Renfrew	260	399,416	216	293,268	181	250,365
Simcoe	536	613,573	411	368,134	367	328,508
Stormont, Dundas and Glengarry	522	749,776	389	532,421	317	388,945
Sudbury	361	334,416	291	278,642	296	513,906
Thunder Bay	201	436,357	175	441,100	130	434,584
Timiskaming	234	410,689	244	432,076	212	560,908
Victoria	173	221,336	98	310,212	72	116,980
Waterloo	575	451,766	461	288,656	392	397,738
Welland	356	490,701	243	141,359	246	308,975
Wellington	351	428,789	263	261,404	212	252,581
Wentworth	1,011	1,112,852	812	917,303	943	813,516
York	7,966	3,076,876	5,567	4,193,408	4,603	2,573,713
Total						
All occupations	25,747	21,444,207	19,533	19,770,902	17,859	18,108,891
Farmers as given	7,444	9,379,505	5,185	6,229,619	4,527	4,763,856
*Occupations not given	9,148	3,991,753	7,857	5,099,462	6,498	4,651,996

*A number of these may be "farmers." Nearly every clerk reports a number of instruments as unclassified as to occupation. Certain finance corporations have adopted the practice of filing chattel mortgages instead of liens on automobiles. This is very noticeable in Essex and Middlesex Counties (included in unclassified).

APPENDIX

Comparative Farm Statistics for Fifty Years—1882-1931

STATISTICS OF FARM CROPS

Fall Wheat and Spring Wheat

The following table gives the area, produce and market value of fall wheat and spring wheat for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the fifty years.

Years	Fall Wheat				Spring Wheat			
	Acres	Bushels	Per acre	Market Value	Acres	Bushels	Per acre	Market value
				$				$
1931	525,024	15,013,555	28.6	7,747,787	90,183	1,982,594	20.0	1,008,547
1930	676,802	18,047,207	26.7	11,958,527	98,966	2,179,204	22.0	1,426,734
1929	691,662	17,820,739	25.8	22,092,590	106,610	1,929,892	18.1	2,416,054
1928	693,660	16,766,408	24.2	20,456,753	109,805	2,181,855	19.9	2,599,815
1927	751,377	19,447,536	25.9	24,254,806	119,580	2,408,055	20.1	2,939,777
1926	807,015	20,988,030	26.0	26,262,506	115,497	2,166,054	18.8	2,708,690
1925	747,101	22,764,736	30.5	30,420,639	113,338	2,440,632	21.5	3,245,576
1924	722,366	21,396,621	29.6	28,646,679	101,401	1,948,853	19.2	2,669,773
1923	717,307	16,599,067	23.1	15,976,322	111,601	1,937,937	17.4	1,865,540
1922	813,935	17,792,958	21.9	18,616,746	124,206	2,099,503	16.9	2,207,565
1921	621,420	13,667,879	22.0	15,096,980	152,904	1,907,459	12.5	2,087,264
1920	762,371	18,492,013	24.3	35,759,610	267,367	4,480,472	16.8	8,237,182
1919	619,494	15,051,703	24.3	35,698,096	361,150	5,646,544	15.6	13,603,841
1918	362,616	7,054,845	19.5	14,877,794	351,423	8,186,191	23.3	17,076,203
1917	585,946	13,384,207	22.8	28,078,738	182,957	3,679,516	20.1	7,716,693
1916	704,867	14,942,050	21.2	24,099,591	144,305	2,213,961	15.3	3,591,681
1915	811,185	24,737,011	30.5	24,023,286	162,142	3,439,949	21.2	3,392,996
1914	685,692	14,333,548	20.9	15,641,232	118,607	2,169,425	18.3	2,340,520
1913	646,533	15,945,717	24.7	13,550,459	116,581	2,068,951	17.7	1,818,652
1912	759,888	15,039,885	19.8	13,795,968	123,080	2,302,339	18.7	2,072,266
1911	837,492	17,926,586	21.4	15,519,411	133,711	2,295,534	17.2	2,081,580
1910	743,473	19,837,172	26.7	17,172,678	129,319	2,489,833	19.3	2,229,999
1909	663,375	15,967,653	24.1	16,335,950	135,161	2,223,567	16.5	2,237,189
1908	679,642	16,430,476	24.2	14,649,061	142,124	2,197,716	15.5	1,996,230
1907	676,164	15,545,491	23.0	14,410,670	144,514	2,473,651	17.1	2,137,234
1906	787,287	18,841,774	23.9	13,321,134	171,745	3,267,000	19.0	2,250,963
1905	796,213	17,933,961	22.5	13,719,480	190,116	3,582,627	18.8	2,683,387
1904	605,458	9,160,623	15.1	9,041,535	225,027	3,471,103	15.4	3,269,779
1903	665,028	17,242,763	25.9	12,949,315	248,518	4,650,707	18.7	3,460,126
1902	748,592	20,233,669	27.0	14,305,204	303,115	6,048,024	20.0	4,209,425
1901	911,587	15,943,229	17.5	10,538,474	358,048	5,498,751	15.4	3,673,166
1900	1,068,640	23,369,737	21.9	15,517,505	376,905	6,940,333	18.4	4,684,725
1899	1,049,691	14,439,827	13.8	9,631,365	398,726	7,041,317	17.7	4,682,476
1898	1,048,182	25,158,713	24.0	17,460,147	389,205	6,873,785	17.7	4,756,659
1897	950,222	23,988,051	25.2	18,758,656	323,305	4,868,101	15.1	3,826,327
1896	876,955	15,078,441	17.2	10,705,693	255,361	3,519,322	13.8	2,484,641
1895	743,199	14,155,282	19.0	9,809,610	223,957	3,472,543	15.5	2,423,835
1894	778,992	16,512,106	21.2	9,081,658	230,016	3,367,854	14.6	1,869,159
1893	913,954	17,545,248	19.2	10,509,604	356,721	4,186,063	11.7	2,486,521
1892	966,522	20,492,497	21.2	14,488,195	651,302	8,290,395	12.7	5,620,888
1891	849,956	21,872,488	25.7	20,800,736	510,634	10,711,538	21.0	9,951,019
1890	720,101	14,267,383	19.8	13,439,875	601,753	7,683,905	12.8	7,015,405
1889	822,115	13,001,865	15.8	11,493,648	398,610	5,697,707	14.3	5,019,680
1888	826,537	13,830,787	16.7	14,162,726	367,850	6,453,559	17.5	6,408,384
1887	897,743	14,440,611	16.1	11,321,439	484,821	5,633,117	11.6	4,393,831
1886	886,402	18,071,142	20.4	13,300,361	577,465	9,518,553	16.5	6,900,951
1885	875,136	21,478,281	24.5	17,504,799	799,463	9,129,881	11.4	7,358,684
1884	864,740	20,717,631	24.0	16,677,693	721,647	14,609,661	20.2	11,892,264
1883	1,097,210	11,656,957	10.6	12,239,805	586,410	9,726,063	16.6	10,406,887
1882	1,188,520	31,255,202	26.3	31,567,754	586,817	9,665,999	16.5	10,245,959
Annual Averages:								
1922–1931	714,625	18,663,676	26.1	20,643,336	110,019	2,127,458	19.3	2,308,807
1912–1921	656,001	15,264,886	23.3	22,062,175	198,052	3,609,481	18.2	6,193,730
1902–1911	720,272	16,912,017	23.5	14,142,444	182,335	3,269,976	17.9	2,655,591
1892–1901	930,794	18,668,313	20.1	12,650,091	356,355	5,405,846	15.2	3,650,840
1882–1891	902,846	18,059,235	20.0	16,250,884	563,547	8,882,998	15.8	7,959,306
1882–1931	784,908	17,513,625	22.3	17,149,786	282,061	4,659,152	16.5	4,553,655

STATISTICS OF FARM CROPS

OATS AND BARLEY

The following table gives the area, produce and market value of Oats and Barley for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the fifty years.

Years	Oats				Barley			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	2,330,128	77,979,490	33.5	19,499,057	437,588	13,407,038	30.6	4,898,775
1930	2,468,913	97,481,866	39.5	28,983,780	609,879	20,910,731	34.3	7,496,760
1929	2,335,310	73,640,478	31.5	45,918,227	622,063	18,032,191	29.0	13,799,386
1928	2,659,980	93,461,068	35.1	51,912,665	615,433	19,944,133	32.4	14,790,285
1927	2,689,295	101,913,746	37.9	58,438,236	514,802	17,238,125	33.5	13,382,864
1926	2,831,755	95,722,130	33.8	49,615,846	449,095	14,447,174	32.2	9,823,171
1925	2,837,390	118,100,471	41.6	53,404,626	436,383	14,917,247	34.2	10,160,463
1924	2,891,990	114,249,129	39.5	61,899,999	439,177	14,570,403	33.2	11,970,808
1923	2,967,417	103,485,442	34.9	46,937,124	452,490	13,523,349	29.9	8,487,609
1922	3,034,090	116,033,569	38.2	50,450,114	433,922	13,971,811	32.2	8,561,782
1921	3,094,958	72,575,191	23.4	36,555,194	462,176	10,149,353	22.0	6,665,865
1920	2,880,053	129,171,312	44.9	75,159,913	484,328	16,660,350	34.4	15,631,613
1919	2,674,341	78,388,018	29.3	76,572,899	569,183	13,133,757	23.1	19,146,902
1918	2,924,468	131,752,601	45.1	98,798,745	660,404	24,247,673	36.7	25,112,912
1917	2,763,355	111,232,817	40.3	86,640,057	551,298	18,387,741	33.4	23,118,166
1916	2,689,762	71,297,528	26.5	47,066,428	527,886	12,388,969	23.5	12,621,940
1915	2,871,755	120,217,952	41.9	47,452,121	552,318	19,893,129	36.0	11,130,811
1914	2,776,883	103,564,322	37.3	51,232,043	579,473	18,096,754	31.2	11,640,790
1913	2,699,459	98,426,902	36.5	36,342,489	623,658	18,255,958	29.3	10,136,759
1912	2,601,735	98,444,807	37.8	38,005,016	647,382	19,232,275	29.7	11,296,962
1911	2,699,230	84,829,232	31.4	37,494,695	616,977	16,248,129	26.3	12,000,154
1910	2,757,933	102,084,924	37.0	35,698,964	626,144	19,103,107	30.5	9,930,410
1909	2,695,585	90,235,579	33.5	35,612,676	695,262	18,776,777	27.0	10,286,328
1908	2,774,259	96,626,419	34.8	38,987,985	734,029	20,888,569	28.5	10,943,788
1907	2,932,509	83,524,301	28.5	40,759,859	766,891	21,718,332	28.3	12,900,689
1906	2,716,711	108,341,455	39.9	36,836,095	756,163	25,253,011	33.4	11,363,855
1905	2,668,416	105,563,572	39.6	35,469,360	772,633	24,265,394	31.4	10,409,854
1904	2,654,936	102,173,443	38.5	33,002,022	772,434	24,567,825	31.8	10,736,140
1903	2,638,665	109,874,053	41.6	32,193,097	709,839	24,378,817	34.3	10,263,482
1902	2,500,758	106,431,439	42.6	37,038,141	661,622	21,890,602	33.1	9,872,661
1901	2,408,264	78,334,490	32.5	28,357,085	637,201	16,761,076	26.3	7,542,484
1900	2,398,834	89,693,327	37.4	23,768,732	577,810	16,909,751	29.3	6,577,893
1899	2,363,778	89,897,724	38.0	24,901,670	490,374	14,830,891	30.2	5,858,202
1898	2,376,360	86,858,293	36.6	22,409,440	438,784	12,663,668	28.9	4,812,194
1897	2,432,491	86,318,128	35.5	19,507,897	451,515	12,021,779	26.6	3,245,880
1896	2,425,107	82,979,992	34.2	16,595,998	462,792	12,669,744	27.4	4,003,639
1895	2,373,309	84,697,566	35.7	24,646,992	478,046	12,090,507	25.3	4,884,565
1894	2,342.766	70,172,516	30.0	21,613,135	486,261	10,980,404	22.6	4,447,064
1893	1,936,644	58,584,529	30.3	19,450,064	467,315	9,806,088	21.0	3,932,241
1892	1,861,469	64,758,053	34.8	19,945,480	499,225	12,274,318	24.6	5,069,293
1891	1,840,636	75,009,542	40.8	27,378,483	553,166	16,141,904	29.2	7,925,675
1890	1,882,366	52,768,207	28.0	21,687,734	701,326	15,600,169	22.2	7,831,285
1889	1,923,444	64,346,301	33.5	19,625,622	875,286	23,386,388	26.7	10,290,011
1888	1,849,868	65,466,911	35.4	26,514,099	895,432	23,366,569	26.1	14,043,308
1887	1,682,463	49,848,101	29.6	17,247,443	767,346	17,134,830	22.3	9,715,448
1886	1,621,901	58,665,608	36.2	18,772,995	735,778	19,512,278	26.5	10,009,799
1885	1,543,745	55,229,742	35.8	17,397,369	597,873	16,533,587	27.7	9,126,540
1884	1,481,828	57,696,304	38.9	19,097,476	700,472	19,119,041	27.3	10,247,806
1883	1,418,309	54,573,609	38.5	20,737,971	757,156	18,414,337	24.3	10,496,172
1882	1,387,487	50,501,701	36.4	21,715,731	848,617	24,284,407	28.6	15,784,865
Annual Averages:								
1922–1931	2,704,627	992,067,739	36.7	46,705,967	501,083	16,096,220	32.1	10,337,190
1912–1921	2,797,677	101,507,145	36.3	59,382,491	565,811	17,044,596	30.1	14,650,272
1902–1911	2,703,900	98,968,442	36.6	36,309,289	711,199	21,709,056	30.5	10,870,736
1892–1901	2,291,902	79,229,462	34.6	22,119,649	498,932	13,100,823	26.3	5,037,346
1882–1891	1,663,205	58,410,603	35.1	21,017,492	743,245	19,349,351	26.0	10,547,091
1882–1931	2,432,262	87,464,478	36.0	37,106,978	604,054	17.460.009	28.9	10,288,527

STATISTICS OF FARM CROPS

PEAS AND BEANS

The following table gives the area, produce and market value of Peas and Beans for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the fifty years.

Years	Peas				Beans			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	58,944	972,832	16.5	608,586	76,312	1,184,172	15.5	685,934
1930	80,093	1,581,468	19.7	1,657,822	67,540	905,498	13.4	1,306,852
1929	79,523	1,235,658	15.5	2,013,945	63,732	1,113,310	17.5	3,373,233
1928	109,887	1,892,588	17.2	2,892,490	50,953	873,427	17.1	3,343,825
1927	105,662	2,035,687	19.3	3,049,924	47,156	725,011	15.4	1,700,257
1926	97,865	1,880,301	19.2	2,831,588	51,721	819,166	15.8	1,913,221
1925	133,434	2,607,287	19.5	3,532,258	61,080	1,154,317	18.9	2,431,446
1924	130,989	2,456,164	18.8	3,712,042	52,047	856,860	16.5	1,958,602
1923	117,409	2,030,850	17.3	2,940,685	41,127	633,713	15.4	1,538,701
1922	105,544	2,076,965	19.7	2,914,720	39,999	622,781	15.6	1,579,549
1921	105,964	1,441,095	13.6	2,205,423	26,509	427,531	16.1	1,005,057
1920	109,187	2,209,523	20.2	4,270,938	22,744	380,499	16.7	1,097,137
1919	127,253	1,816,517	14.3	4,794,268	22,920	288,480	12.6	1,154,081
1918	113,862	2,381,937	20.9	5,184,332	100,082	1,387,834	13.9	6,230,007
1917	90,322	1,512,567	16.7	4,855,888	110,680	1,078,510	9.7	7,446,626
1916	95,542	1,243,979	13.4	2,618,754	53,999	583,105	10.8	3,183,086
1915	126,943	2,043,049	16.1	3,302,641	62,863	882,819	14.0	2,745,105
1914	177,856	2,609,585	14.7	3,565,974	51,149	835,895	16.3	1,787,432
1913	177,303	3,108,263	17.5	3,127,551	66,639	1,021,243	15.3	1,738,900
1912	221,524	3,667,005	16.6	4,047,354	69,703	1,182,132	17.0	2,280,173
1911	304,491	4,462,182	14.7	4,380,883	51,508	898,212	17.4	1,711,089
1910	403,414	6,016,003	14.9	4.856,986	49,778	892,927	17.9	1,386,798
1909	381,609	7,613,656	20.0	6,437,685	45,029	826,344	18.4	1,334,325
1908	396,642	7,401,336	18.7	6,121,449	46,477	783,757	16.9	1,160,103
1907	340,977	7,365,036	21.6	5,744,728	47,562	790,269	16.6	1,201,209
1906	410,356	7,388,987	18.0	5,216,625	51,272	950,312	18.5	1,320,934
1905	374,518	7,100,021	19.0	4,636,314	50,543	846,443	16.7	1,117,305
1904	339,260	6,629,866	19.5	4,176,816	50,892	912,849	17.9	1,113,676
1903	407,133	8,924,650	21.9	5,738,550	53,039	978,246	18.4	1,379,327
1902	532,639	7,664,679	14.4	5,441,922	53,964	670,633	12.4	905,355
1901	602,724	10,089,173	16.7	6,588,230	53,688	824,122	15.4	1,030,153
1900	661,592	14,058,198	21.2	8,027,231	44,053	820,373	18.6	817,912
1899	743,139	15,140,790	20.4	8,675,673	40,485	651,009	16.1	703,090
1898	865,951	13,521,263	15.6	7,058,099	45,220	759,657	16.8	531,760
1897	896,735	13,867,093	15.5	5,838,046	50,591	981,340	19.4	639,834
1896	829,601	17,493,148	21.1	7,696,985	68,369	1,197,535	17.5	819,114
1895	799,963	15,568,103	19.5	8,531,320	72,747	1,494.179	20.5	1,414,988
1894	785,007	14,022,888	17.9	7,516,268	59,281	827,514	14.0	913,575
1893	738,741	14,168,955	19.2	7,651,236	48,858	664,310	13.6	783,886
1892	774,732	14,494,430	18.7	8,551,714	33,249	535,931	16.1	529,500
1891	752,453	18,323,459	24.4	11,690,367	41,451	769,600	18.6	816,546
1890	781,206	15,389,313	19.7	9,279,756	39,456	761,341	19.3	978,323
1889	708,068	13,509,237	19.1	7,524,645	21,830	371,893	17.0	471,188
1888	696,653	14,269,863	20.5	9,332,490	22,700	534,526	23.5	607,756
1887	726,756	12,173,332	16.8	6,804,892	20,275	275,975	13.6	270,180
1886	703,936	16,043,734	22.8	8,439,004	21,072	482,072	22.9	403,494
1885	646,081	14,006,192	21.7	8,123,591	24,651	496,564	20.1	397,251
1884	570,928	13,691,607	24.0	8,817,395	24,878	592,044	23.8	698,612
1883	542,771	10,673,723	19.7	7,578,343	25,907	....	....	....
1882	560,770	11,006,115	19.6	8,144,525	19,787	409,910	20.7	807,523
Annual Averages:								
1922-1931	101,935	1,876,980	18.4	2,615,406	55,167	888,826	16.1	1,983,162
1912-1921	134,576	2,203,352	16.4	3,797,312	58,729	806,805	13.7	2,866,760
1902-1911	389,104	7,056,642	18.1	5,275,196	50,006	854,999	17.1	1,263,012
1892-1901	769,819	14,242,404	18.5	7,613,480	51,654	875,597	17.0	818,381
1882-1891	668,962	13,908,658	20.8	8,573,501	26,201	469,393	17.9	545,087
1882-1931	412,879	7,857,607	19.0	5,574,979	48,351	779,124	16.1	1,495,281

STATISTICS OF FARM CROPS

Rye and Buckwheat

The following table gives the area, produce and market value of Rye and Buckwheat for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the fifty years.

Years	Rye				Buckwheat			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	61,701	1,104,754	17.9	462,594	178,719	3,665,584	20.5	1,551,607
1930	52,881	937,302	17.7	454,565	275,317	5,675,616	20.6	2,935,428
1929	52,023	873,239	16.8	847,938	294,388	5,562,013	18.9	4,627,121
1928	66,307	1,131,172	17.1	1,076,724	271,243	5,692,376	21.0	4,638,578
1927	72,323	1,289,058	17.8	1,228,421	249,210	5,892,510	23.6	4,593,204
1926	86,355	1,501,390	17.4	1,309,840	234,870	4,975,192	21.2	3,830,695
1925	98,652	1,784,625	18.1	1,553,529	257,932	5,579,109	21.6	4,086,236
1924	126,641	2,299,545	18.2	2,471,369	240,552	6,449,496	26.8	5,593,465
1923	123,354	2,011,325	16.3	1,481,691	230,276	5,012,010	21.8	3,670,511
1922	152,709	2,500,354	16.4	1,959,112	197,812	4,266,215	21.6	3,137,448
1921	122,868	1,775,599	14.5	1,467,086	147,944	3,354,201	22.7	2,482,999
1920	133,090	2,349,880	17.7	3,336,240	143,204	3,190,478	22.3	3,367,161
1919	140,072	2,219,042	15.8	3,531,031	178,569	4,071,959	22.8	5,727,413
1918	112,726	1,812,909	16.1	2,750,561	223,662	4,597,990	20.6	6,207,986
1917	133,077	2,222,325	16.7	3,614,591	153,457	2,992,391	19.5	4,278,256
1916	148,738	2,354,410	15.8	2,797,290	229,205	3,261,888	14.2	3,555,699
1915	173,736	3,210,512	18.5	2,532,051	193,497	4,278,366	22.1	3,057,398
1914	138,913	2,315,532	16.7	1,965,522	177,227	4,251,421	24.0	3,041,564
1913	118,429	1,979,775	16.7	1,310,306	228,279	4,012,418	17.6	2,549,398
1912	105,949	1,839,675	17.4	1,287,208	205,893	5,414,796	26.3	2,950,001
1911	98,652	1,562,971	15.8	1,326,510	189,039	3,852,231	20.4	2,324,992
1910	95,397	1,620,333	17.0	1,024,787	194,913	4,693,881	24.1	2,346,387
1909	94,661	1,573,921	16.6	1,060,566	176,630	4,280,790	24.2	2,284,440
1908	87,908	1,453,616	16.5	1,012,953	140,605	3,323,668	23.6	1,799,890
1907	67,158	1,039,021	15.5	721,081	113,039	2,546,468	22.5	1,461,673
1906	79,870	1,327,582	16.6	808,497	106,444	1,792,903	16.8	887,487
1905	101,292	1,714,951	16.9	974,092	101,591	2,199,652	21.7	1,099,826
1904	130,702	2,001,826	15.3	1,153,052	100,608	2,066,234	20.5	1,004,190
1903	179,277	2,970,768	16.6	1,443,793	95,487	2,049,169	21.5	907,782
1902	189,318	3,509,332	18.5	1,772,213	93,324	1,911,683	20.5	917,608
1901	158,236	2,545,268	16.1	1,254,817	88,266	1,757,071	19.9	850,422
1900	142,213	2,357,635	16.6	1,143,453	102,570	1,874,261	18.3	819,052
1899	137,824	2,284,846	16.6	1,142,423	132,082	2,203,299	16.7	1,002,501
1898	165,089	2,673,234	16.2	1,162,857	150,394	2,373,645	15.8	906,732
1897	187,785	3,382,005	18.0	1,275,016	151,669	3,464,186	22.8	1,039,256
1896	148,680	2,230,873	15.0	816,500	145,606	2,603,669	17.9	794,119
1895	120,350	1,900,117	15.8	866,453	135,262	2,791,749	20.6	1,027,364
1894	90,144	1,386,606	15.4	612,880	145,268	2,534,335	17.4	993,459
1893	68,486	994,771	14.5	472,516	133,828	2,380,456	17.8	995,031
1892	73,073	1,132,504	15.5	631,937	125,104	2,521,214	20.2	1,063,952
1891	67,865	1,134,630	16.7	820,337	107,879	2,608,142	24.2	1,150,191
1890	103,061	1,563,345	15.2	823,883	90,111	2,053,720	22.8	883,100
1889	90,106	1,431,679	15.9	728,725	56,398	1,272,578	22.6	502,668
1888	84,087	1,295,302	15.4	779,772	57,528	1,222,283	21.2	602,585
1887	68,362	894,887	13.1	442,969	64,143	1,025,353	16.0	461,409
1886	67,779	1,106,462	16.3	577,573	70,792	1,678,708	23.7	565,725
1885	78,293	1,271,506	16.2	701,871	61,776	1,530,675	24.8	600,024
1884	103,416	1,648,259	15.9	984,010	65,836	1,484,570	22.5	593,828
1883	188,111	3,012,240	16.0	2,018,201	67,802	....	....	....
1882	185,276	3,473,799	18.7	2,223,231	50,035	1,262,973	25.2	505,189
Annual Averages:								
1922–1931	89,295	1,543,279	17.3	1,284,578	243,032	5,277,012	21.7	3,866,429
1912–1921	132,760	2,207,966	16.6	2,459,189	188,094	3,942,591	21.0	3,721,788
1902–1911	112,424	1,877,432	16.7	1,129,754	131,168	2,871,668	21.9	1,503,428
1892–1901	129,188	2,088,786	16.2	937,885	131,005	2,450,389	18.7	949,189
1882–1891	103,636	1,683,211	16.2	1,010,057	69,230	1,413,900	20.4	586,472
1882–1931	113,460	1,880,134	16.6	1,364,293	152,506	3,191,112	20.9	2,125,461

STATISTICS OF FARM CROPS

Flax and Mixed Grains

The following table gives the area, produce and market value of Flax and Mixed Grains for the years 1907 to 1931, together with the annual averages for the various periods and for the whole term of years.

Years	Flax				Mixed Grains			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	7,325	79,555	10.9	83,812	1,012,347	35,155,615	34.7	12,510,754
1930	5,235	51,257	9.8	78,809	958,086	37,512,279	39.2	13,857,314
1929	5,492	46,927	8.5	109,034	892,897	29,903,638	33.5	21,890,640
1928	7,964	67,441	8.5	141,111	905,693	33,691,418	37.2	23,420,648
1927	7,080	68,173	9.6	121,004	799,333	31,918,944	39.9	22,882,169
1926	7,712	75,736	9.8	148,149	770,981	28,577,629	37.1	18,697,998
1925	9,789	123,134	12.6	262,386	681,624	28,246,057	41.4	16,559,729
1924	6,619	77,801	11.8	162,590	645,622	26,403,332	40.9	18,231,508
1923	6,766	68,684	10.2	140,376	648,934	23,880,889	36.8	14,290,315
1922	4,556	48,662	10.7	106,046	552,399	21,270,479	38.5	11,882,085
1921	7,534	66,748	8.9	130,995	618,289	16,188,510	26.2	10,579,352
1920	21,053	224,893	10.7	515,983	581,689	25,712,447	44.2	20,556,442
1919	13,717	129,461	9.4	670,608	628,761	19,735,287	31.4	26,403,773
1918	15,925	196,221	12.3	*1,224,783	619,389	27,462,374	44.3	28,253,556
1917	7,372	....	....	....	515,593	20,102,421	39.0	20,876,501
1916	5,880	....	....	....	485,986	13,297,354	27.4	12,485,065
1915	5,334	....	....	....	475,738	19,461,609	40.9	10,602,271
1914	6,025	....	....	....	456,631	16,854,550	36.9	10,074,687
1913	7,431	....	....	....	414,517	15,113,480	36.5	7,953,111
1912	9,125	....	....	....	448,402	16,382,161	36.5	8,674,724
1911	12,128	....	....	....	486,112	14,845,595	30.5	9,104,141
1910	12,021	....	....	....	497,936	18,261,803	36.7	9,187,822
1909	11,253	....	....	....	474,530	16,199,434	34.1	8,825,196
1908	8,562	....	....	....	456,049	15,354,350	33.7	8,444,893
1907	9,296	....	....	....	443,100	14,202,511	32.1	7,811,381
Annual Averages:								
1922–1931	6,854	70,737	10.3	135,332	786,792	29,666,028	37.7	17,422,316
1912–1921	9,940	....	....	....	524,500	19,031,019	36.3	15,645,948
1907–1911	10,652	....	....	....	471,545	15,772,739	33.4	8,674,687
1907–1931	8,848	....	....	....	618,826	22,629,367	36.6	14,962,243

*Including seed of fibre variety commandeered and shipped to Ireland to the value of $930,769.

No estimates of yields of flax were made previous to 1918. The average for the fourteen years, 1918–1931, was 9,055 acres, yielding 94,621 bushels, valued at $278,623.

Tobacco

The following table gives the estimated area and production of Tobacco for the years 1922 to 1931, together with the annual average for this period. Like all special crops, these figures are useful only for comparative purposes.

Years	Acres	Pounds	Per acre
1931	47,360	44,770,000	945
1930	27,376	27,546,447	1,006
1929	23,073	20,693,776	897
1928	33,977	35,585,848	1,047
1927	34,555	39,520,986	1,144
1926	19,992	25,557,724	1,278
1925	12,719	15,315,935	1,204
1924	12,399	14,525,471	1,172
1923	8,630	10,797,228	1,251
1922	9,189	10,031,870	1,202
Annual Averages:			
1922–1931	22,927	24,534,529	1,070

STATISTICS OF FARM CROPS

Husking Corn and Silo Corn

The following table gives the area, produce and market value of *Corn (for husking and for silo) for the years 1892 to 1931, together with the annual averages for the various periods of ten years and the average for the forty years.

Years	Corn for Husking				Corn for Silo			
	Acres	Bushels (in the ear)	Per acre	Market value	Acres	Tons (green)	Per acre	Market value
				$				$
1931............	123,960	8,151,239	65.8	2,157,322	264,286	2,301,527	8.71	9,206,108
1930............	130,094	7,723,347	59.4	3,569,682	311,817	2,619,049	8.40	10,476,196
1929............	120,000	6,674,942	55.6	4,460,367	287,566	2,221,467	7.73	9,574,523
1928............	110,192	6,921,850	62.8	4,714,511	299,307	2,685,727	8.97	11,199,482
1927............	102,626	5,449,213	53.1	3,613,287	326,964	2,490,660	7.62	10,012,453
1926............	179,325	10,329,439	57.6	5,529,069	367,772	3,497,071	9.51	15,736,820
1925............	207,767	14,604,467	70.3	8,131,617	373,133	3,614,233	9.69	15,360,490
1924............	263,615	16,711,996	63.4	11,737,059	403,060	3,977,017	9.87	17,896,577
1923............	285,335	19,292,244	67.6	9,710,461	409,628	3,651,102	8.91	14,604,408
1922............	265,018	18,459,363	69.7	8,609,503	438,819	4,413,191	10.06	17,652,764
1921............	250,684	20,313,661	81.0	8,012,455	438,343	5,015,082	11.44	25,075,410
1920............	243,909	19,372,277	79.4	12,867,119	449,176	4,668,054	10.39	23,340,270
1919............	221,004	15,152,475	68.6	16,400,838	399,549	4,013,946	10.05	20,069,730
1918............	195,310	13,015,072	66.6	13,650,415	380,946	3,944,313	10.35	17,749,409
1917............	258,935	11,513,512	44.5	14,278,407	511,329	4,587,176	8.97	18,348,704
1916............	258,332	12,717,072	49.2	9,446,060	439,411	3,276,185	7.46	10,647,610
1915............	309,773	21,760,496	70.2	9,885,292	443,736	4,874,377	10.98	12,185,943
1914............	290,817	23,232,360	80.0	10,622,455	418,105	4,751,223	11.36	11,878,058
1913............	299,871	22,214,014	74.1	9,545,538	388,138	4,059,345	10.46	10,148,363
1912............	301,251	21,969,468	72.9	8,162,565	377,982	3,969,597	10.50	9,923,993
1911............	308,350	21,913,290	71.7	9,693,994	335,935	3,764,227	11.21	9,410,568
1910............	320,519	24,900,386	77.7	9,301,245	326,627	3,788,364	11.60	7,576,728
1909............	322,789	22,619,690	70.1	9,705,826	288,346	3,374,655	11.70	6,749,310
1908............	299,690	23,601,122	78.8	9,440,336	233,753	2,729,265	11.68	5,458,530
1907............	338,573	21,899,466	64.7	6,219,448	200,354	2,029,547	10.13	4,059,094
1906............	289,456	23,988,682	82.9	9,019,744	180,796	2,149,413	11.89	4,298,826
1905............	295,005	20,922,919	70.9	7,720,557	184,784	2,284,812	12.36	4,569,624
1904............	329,882	20,241,914	61.4	7,570,476	193,115	2,023,340	10.48	4,046,680
1903............	378,924	29,287,888	77.3	10,807,230	209,727	2,564,400	12.23	5,128,800
1902............	371,959	20,512,194	55.1	8,327,951	209,859	2,611,334	12.44	5,222,668
1901............	323,923	24,838,105	76.7	9,438,480	197,932	2,359,514	11.92	4,719,028
1900............	330,772	27,093,561	81.9	8,588,659	179,798	2,147,532	11.94	4,295,064
1899............	333,590	21,673,234	65.0	4,291,300	171,935	1,697,755	9.87	3,395,510
1898............	330,748	23,442,593	70.9	4,711,961	189,948	2,128,073	11.20	4,256,146
1897............	335,030	24,663,998	73.6	4,858,808	209,005	2,669,822	12.77	5,339,644
1896............	317,667	24,071,364	75.8	4,717,987	178,962	1,948,780	10.89	3,897,560
1895............	302,929	24,819,899	81.9	5,609,297	149,899	1,775,654	11.85	3,551,308
1894............	267,348	16,275,352	60.9	4,247,867	111,361	1,049,765	9.43	2,099,530
1893............	217,294	14,072,961	64.8	3,729,335	95,865	1,049,524	10.95	2,099,048
1892............	181,463	11,229,498	61.9	2,953,358	91,403	948,907	10.38	1,897,814
Annual Averages:								
1922–1931...	178,793	11,431,810	63.9	6,223,288	348,235	3,147,104	9.04	13,171,982
1912–1921...	262,989	18,126,041	68.9	11,287,114	424,672	4,315,930	10.16	15,936,749
1902–1911...	325,515	22,988,755	70.6	8,780,681	236,330	2,731,936	11.56	5,652,083
1892–1901...	294,076	21,218,057	72.2	5,314,705	157,611	1,777,533	11.28	3,555,065
1892–1931...	265,343	18,441,166	69.5	7,901,447	291,712	2,993,126	10.26	9,578,970

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*The combined average area for corn for the ten years, 1882–1891, was 195,878 acres, the average value of the produce for the same period being $3,704,614. The combined average for corn for the fifty years, 1882–1931, was 484,820 acres, the average value of the produce for the same period being $14,725,256.

STATISTICS OF FARM CROPS

Potatoes and Turnips

The following table gives the area, produce and market value of Potatoes and Turnips for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the fifty years.

Years	Potatoes				Turnips			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	168,158	20,026,501	119.1	4,735,770	68,323	23,489,120	344	2,348,912
1930	159,192	18,275,055	114.8	10,906,175	74,133	25,386,998	342	5,077,400
1929	148,435	14,140,088	95.3	15,271,732	72,502	22,848,692	315	4,569,738
1928	181,241	19,791,851	109.2	11,052,928	71,791	34,323,412	478	6,864,682
1927	159,871	15,495,307	96.9	13,662,224	68,479	29,452,281	430	5,448,672
1926	153,468	16,496,290	107.5	18,627,771	71,500	23,204,013	325	4,640,803
1925	163,790	15,714,786	95.9	21,513,125	73,318	28,015,466	382	5,042,784
1924	169,145	24,966,530	147.6	13,355,441	70,110	32,547,607	464	5,533,093
1923	164,682	19,131,980	116.2	14,306,447	65,193	27,099,910	416	5,419,982
1922	172,858	20,349,541	117.7	10,385,525	67,635	29,923,528	442	5,984,706
1921	164,096	15,400,142	93.8	13,589,599	70,715	24,265,547	343	6,673,025
1920	157,509	23,961,709	152.1	23,776,530	80,588	40,141,406	498	11,038,887
1919	157,286	15,144,921	96.3	25,026,467	85,312	28,740,526	337	7,903,645
1918	166,203	19,375,947	116.6	19,238,431	85,449	42,190,382	494	10,547,596
1917	146,481	18,291,735	124.9	22,530,291	93,034	39,989,556	430	7,997,911
1916	139,523	7,408,429	53.1	9,684,215	91,670	24,067,699	263	3,369,478
1915	173,934	13,267,023	76.3	10,805,026	97,451	46,598,851	478	4,659,885
1914	167,591	26,717,587	159.4	11,747,332	95,371	46,336,708	486	4,633,671
1913	159,661	19,024,115	119.2	12,114,656	97,572	41,889,894	429	4,188,989
1912	158,888	21,346,394	134.3	13,604,052	101,529	49,561,566	488	4,956,157
1911	162,457	13,918,698	85.7	11,722,539	100,593	39,664,275	394	3,966,428
1910	168,454	21,927,804	130.2	10,798,597	108,360	49,425,472	456	4,942,547
1909	169,695	24,645,283	145.2	8,989,452	113,400	50,738,940	447	5,073,894
1908	166,974	18,517,642	110.9	8,874,201	120,920	41,210,189	341	4,121,019
1907	177,186	20,057,675	113.2	11,693,625	123,011	48,205,605	392	4,820,561
1906	136,064	15,020,299	110.4	8,080,921	132,512	57,060,151	431	5,706,015
1905	132,530	14,366,049	108.4	6,608,383	135,348	57,654,086	426	5,765,409
1904	133,819	15,479,122	115.7	7,847,915	133,207	64,861,703	487	6,486,170
1903	139,011	16,676,447	120.0	7,354,313	134,469	69,316,341	515	6,931,634
1902	144,733	12,942,502	89.4	7,312,514	136,725	71,740,204	525	7,174,020
1901	154,155	18,116,637	117.5	7,717,687	145,909	68,287,467	468	6,828,747
1900	163,754	21,476,439	131.2	5,605,351	156,583	59,330,395	379	5,933,040
1899	168,148	19,933,366	118.5	6,538,144	153,440	58,078,390	379	5,807,839
1898	169,946	14,358,625	84.5	6,332,154	151,601	64,727,882	427	6,472,788
1897	169,333	16,100,797	95.1	6,424,218	149,336	68,297,148	457	6,829,715
1896	178,965	21,305,477	119.0	5,582,035	148,234	69,814,841	471	6,981,484
1895	184,647	29,390,884	159.2	5,936,959	151,806	63,496,702	418	6,349,670
1894	167,253	17,163,130	102.6	6,075,748	147,657	61,694,487	418	6,169,449
1893	142,601	12,911,212	90.5	5,099,929	136,604	56,975,355	417	5,697,535
1892	145,703	12,289,817	84.3	6,194,068	129,627	63,541,641	490	6,354,164
1891	160,218	24,055,886	150.1	7,842,219	126,075	68,853,452	546	6,885,345
1890	158,094	17,561,117	111.1	7,779,575	111,055	47,040,563	424	4,704,056
1889	145,812	14,355,529	98.5	6,531,766	111,103	37,021,260	333	3,702,126
1888	153,915	22,273,607	144.7	7,060,733	113,188	47,640,237	421	4,764,024
1887	140,283	10,678,000	76.1	6,705,784	105,322	31,413,456	298	3,141,346
1886	140,143	16,012,358	114.3	7,189,548	98,931	47,061,053	476	4,706,105
1885	159,741	21,091,144	132.0	8,668,460	102,303	41,137,735	402	4,113,774
1884	168,757	27,546,261	163.2	11,018,504	104,190	44,406,363	426	4,440,636
1883	166,823	16,400,782	98.3	10,168,485	98,429	29,879,354	304	2,987,935
1882	160,700	18,432,145	114.7	11,796,573	78,823	35,359,331	448	3,535,933
Annual Averages:								
1922–1931	164,084	18,438,793	112.4	13,381,714	70,298	27,629,103	393	5,093,077
1912–1921	159,117	17,993,800	113.1	16,211,660	89,869	38,378,214	427	6,596,924
1902–1911	153,092	17,355,152	113.4	8,928,246	123,855	54,987,697	444	5,498,770
1892–1901	164,451	18,304,638	111.3	6,150,629	147,080	63,424,431	431	6,342,443
1882–1891	155,449	18,840,683	121.2	8,476,165	104,943	42,981,280	410	4,298,128
1882–1931	159,239	18,186,613	114.2	10,629,683	107,209	45,480,145	424	5,565,868

STATISTICS OF FARM CROPS

MANGELS AND SUGAR BEETS

The following table gives the area, produce and market value of Mangels for the years 1882 to 1931, and of Sugar Beets for the years 1907 to 1931, together with the annual averages for the various periods of ten years and the average for the full period.

Years	Mangels				Sugar Beets			
	Acres	Bushels	Per acre	Market value	Acres	Bushels	Per acre	Market value
				$				$
1931	32,399	11,855,500	366	1,185,550	35,258	13,105,869	372	1,965,880
1930	29,055	10,626,135	366	2,125,227	38,220	13,614,358	356	2,333,909
1929	30,395	9,728,083	320	1,945,617	36,864	12,146,230	329	2,022,347
1928	33,567	14,738,443	439	2,947,689	45,294	15,215,990	336	2,757,898
1927	34,665	13,494,700	389	2,496,520	38,503	13,453,691	349	2,606,653
1926	34,009	13,548,484	398	2,709,697	41,594	18,831,084	453	3,766,217
1925	35,385	14,881,069	421	2,678,592	37,718	16,686,713	442	3,003,608
1924	35,958	15,616,128	434	2,654,742	36,080	13,346,456	370	2,272,570
1923	35,118	14,865,791	423	2,973,158	22,450	8,647,615	385	1,729,523
1922	35,274	16,366,353	464	3,273,271	20,725	7,616,281	367	1,523,246
1921	31,225	11,909,854	381	3,275,210	28,367	10,712,975	378	2,946,068
1920	36,450	17,174,290	471	4,722,930	36,288	16,497,067	455	4,536,693
1919	35,010	13,409,270	383	3,687,549	24,500	9,586,495	391	2,636,286
1918	40,714	18,244,453	448	4,561,113	22,894	9,398,141	411	2,349,535
1917	49,148	19,492,626	397	3,898,525	22,039	6,781,113	308	1,356,223
1916	42,793	9,756,015	228	1,365,842	22,482	6,023,938	268	843,351
1915	50,799	25,356,323	498	2,028,506	22,890	8,644,281	378	1,080,535
1914	50,663	25,439,520	502	2,035,162	18,534	7,466,819	403	933,352
1913	54,568	21,935,847	402	1,754,868	19,083	6,389,177	335	798,647
1912	60,103	27,671,114	460	2,213,689	21,054	7,819,066	371	977,383
1911	64,855	28,126,313	434	2,250,105	24,664	8,941,659	363	1,117,707
1910	68,966	34,686,137	503	2,774,891	26,879	11,238,577	418	1,348,629
1909	70,488	28,928,347	410	2,314,267	19,812	7,001,565	353	840,188
1908	67,937	29,870,966	440	2,389,677	17,453	7,004,748	401	840,570
1907	68,644	30,260,315	441	2,420,825	16,851	8,237,044	489	988,445
1906	69,352	32,863,192	474	2,629,055	....	....	....	....
1905	69,035	33,216,930	481	2,657,354	....	....	....	....
1904	71,344	33,595,440	471	2,687,635	....	....	....	....
1903	80,918	41,768,239	516	3,341,459	....	....	....	....
1902	76,553	39,140,924	511	3,131,274	....	....	....	....
1901	61,095	29,683,324	486	2,374,666	....	....	....	....
1900	54,543	24,728,525	453	1,978,282	....	....	....	....
1899	53,401	20,898,387	391	1,671,871	....	....	....	....
1898	47,923	21,957,564	458	1,756,605	....	....	....	....
1897	41,175	18,103,387	440	1,448,271	....	....	....	....
1896	36,101	16,849,401	467	1,347,952	....	....	....	....
1895	34,383	15,961,502	464	1,276,920	....	....	....	....
1894	27,670	11,532,127	417	922,570	....	....	....	....
1893	21,519	8,582,568	399	686,605	....	....	....	....
1892	22,026	10,350,474	470	828,038	....	....	....	....
1891	22,961	11,779,448	513	942,356	....	....	....	....
1890	25,953	11,594,518	447	927,561	....	....	....	....
1889	21,211	7,223,478	341	577,878	....	....	....	....
1888	21,459	10,020,659	467	801,653	....	....	....	....
1887	17,924	5,695,761	318	455,661	....	....	....	....
1886	18,170	8,787,743	484	703,019	....	....	....	....
1885	16,435	7,660,729	466	612,858	....	....	....	....
1884	18,341	8,655,184	472	692,415	....	....	....	....
1883	17,219	6,252,015	363	500,161	....	....	....	....
1882	15,792	7,711,420	488	616,913	....	....	....	....
Annual Averages:								
1922–1931	33,583	13,572,069	404	2,499,006	35,271	13,266,429	376	2,398,185
1912–1921	45,147	19,038,931	422	2,954,339	23,813	8,931,907	375	1,845,807
1902–1911	70,809	33,245,680	470	2,659,654	*21,132	*8,484,719	*402	*1,027,108
1892–1901	39,984	17,864,726	447	1,429,178	....	....	....	....
1882–1891	19,546	8,538,096	437	683,048	....	....	....	....
1882–1931	41.814	18.451.900	441	2.045.045	†27,860	†10,576.278	†380	†1,903,019

*1907–11. †1907–31.

STATISTICS OF FARM CROPS

Alfalfa and Hay and Clover

The following table gives the area, produce and market value of Alfalfa for the years 1912 to 1931, and of Hay and Clover for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the whole period.

Years	Alfalfa				Hay and Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				$				$
1931	431,110	971,304	2.25	9,816,770	†2,858,923	4,615,372	1.61	38,906,045
1930	641,686	1,409,528	2.20	16,065,846	†2,849,702	4,353,094	1.53	45,365,729
1929	685,880	1,596,212	2.33	19,546,701	†2,915,221	4,661,660	1.60	52,573,554
1928	743,230	1,730,135	2.33	20,020,248	†2,811,076	4,455,615	1.59	50,026,378
1927	806,397	1,865,868	2.31	21,915,225	†2,832,813	4,914,515	1.73	54,161,232
1926	748,473	1,850,392	2.47	25,889,781	†2,889,143	4,248,048	1.47	54,154,454
1925	550,645	1,397,462	2.54	19,306,047	†3,022,507	4,181,206	1.38	50,738,655
1924	381,258	1,067,717	2.80	12,252,536	3,545,856	5,615,238	1.58	61,283,373
1923	299,610	788,431	2.63	8,915,438	3,596,484	5,799,422	1.61	64,069,155
1922	221,326	629,135	2.84	7,439,403	3,575,662	5,568,459	1.56	66,964,036
1921	177,205	456,378	2.58	8,023,795	3,551,655	3,954,166	1.11	76,193,216
1920	162,820	399,581	2.45	10,172,434	3,533,740	4,459,094	1.26	109,036,159
1919	146,790	314,419	2.14	7,293,462	3,508,266	5,588,804	1.59	126,750,915
1918	144,010	328,971	2.28	6,579,420	3,470,036	4,596,854	1.32	83,344,591
1917	189,109	462,956	2.45	5,460,205	3,358,579	6,156,340	1.83	72,705,998
1916	177,565	460,788	2.60	4,822,622	3,294,419	6,739,259	2.05	71,503,879
1915	165,284	428,739	2.59	6,044,599	3,066,468	3,825,024	1.25	55,660,170
1914	163,685	372,759	2.28	5,195,667	3,251,799	3,469,795	1.07	50,721,713
1913	167,707	380,606	2.27	5,090,267	3,261,139	3,543,957	1.09	46,212,298
1912	189,959	460,201	2.42	5,542,772	3,177,410	4,760,512	1.50	55,906,657
1911	....	....	....	....	3,301,468	4,238,362	1.28	55,767,671
1910	....	....	....	....	3,204,021	5,492,653	1.71	54,407,105
1909	....	....	....	....	3,228,445	3,885,145	1.20	49,754,078
1908	....	....	....	....	3,253,141	4,635,287	1.42	47,696,579
1907	....	....	....	....	3,289,552	3,891,863	1.18	58,806,050
1906	....	....	....	....	3,069,917	4,684,625	1.53	42,630,087
1905	....	....	....	....	3,020,365	5,847,494	1.94	45,142,654
1904	....	....	....	....	2,926,207	5,259,189	1.80	41,915,736
1903	....	....	....	....	2,783,565	4,336,562	1.56	34,432,302
1902	....	....	....	....	2,646,202	4,955,438	1.87	40,386,820
1901	....	....	....	....	2,557,263	4,632,317	1.81	37,012,213
1900	....	....	....	....	2,526,566	3,133,045	1.24	26,568,222
1899	....	....	....	....	2,505,422	3,498,705	1.40	27,010,003
1898	....	....	....	....	2,453,503	4,399,063	1.79	27,362,172
1897	....	....	....	....	2,341,488	3,811,518	1.63	27,366,699
1896	....	....	....	....	2,426,711	2,260,240	.93	21,879,123
1895	....	....	....	....	2,537,674	1,849,914	.73	22.753,942
1894	....	....	....	....	2,576,943	3,575,200	1.39	27,028,512
1893	....	....	....	....	2,766,894	4,963,557	1.79	37,921,575
1892	....	....	....	....	2,515,367	4,384,838	1.74	35,955,672
1891	....	....	....	....	2,549,975	2,392,798	.94	28,498,224
1890	....	....	....	....	2,462,002	4,305,915	1.75	34,232,024
1889	....	....	....	....	2,386,223	3,728,313	1.56	37,208,564
1888	....	....	....	....	2,292,638	2,009,017	.88	33,570,674
1887	....	....	....	....	2,280,643	3,093,610	1.36	35,947,748
1886	....	....	....	....	2,295,151	2,994,446	1.35	29,016,182
1885	....	....	....	....	2,268,091	3,252,155	1.43	32,033,727
1884	....	....	....	....	2,193,369	3,044,912	1.39	29,109,359
1883	....	....	....	....	2,350,969	4,115,535	1.75	37,122,126
1882	....	....	....	....	1,825,890	2,090,626	1.14	24,125,824
Annual Averages								
1922–1931	550,962	1,330,618	2.42	16,116,800	3,141,888	4,946,462	1.57	54,824,511
1912–1921	168,413	406,540	2.41	6,422,524	3,347,351	4,709,381	1.41	74,803,560
1902–1911	....	....	....	....	*3.072.288	4,722,662	1.54	47,093,908
1892–1901	....	....	....	....	*2,520,783	3,650,840	1.45	29,085,813
1882–1891	....	....	....	....	*2,290,495	3,102,733	1.35	32,086,445
1882–1931	‡359,687	868,579	2 41	11,269,662	2.864,131	4,205,376	1.47	47,378,797

*Including Alfalfa. †Exclusive of Alsike and Sweet Clover, previously included. ‡1912-31.

STATISTICS OF FARM CROPS

Carrots and all Field Crops

The following table gives the area, produce and market value of Carrots and of all Field Crops for the years 1882 to 1931, together with the annual averages for the various periods of ten years and the average for the whole period.

Years	Carrots				All Field Crops		
	Acres	Bushels	Per acre	Market value	Acres	Value	Per acre
				$		$	$ c.
1931	3,179	436,517	137	43,652	9,176,062	125,219,586	13.65
1930	1,772	236,642	134	47,328	10,009,097	173,498,548	17.33
1929	1,777	222,903	125	44,581	10,020,294	236,651,277	23.62
1928	2,002	317,998	159	63,600	10,357,960	244,445,136	23.60
1927	1,743	286,863	165	53,070	10,305,045	256,627,042	24.90
1926	1,672	253,966	152	50,793	10,434,401	257,686,886	24.70
1925	1,835	325,478	177	58,586	10,364,317	261,490,292	25.23
1924	2,128	402,446	189	68,416	10,264,614	264,370,642	25.76
1923	1,780	285,270	160	57,054	10,296,961	219,114,500	21.28
1922	2,124	472,643	223	94,529	10,258,613	223,342,150	21.77
1921	2,217	410,501	185	112,888	10,075,073	222,177,881	22.05
1920	2,706	674,101	249	185,378	10,108,272	367,608,619	36.37
1919	2,706	605,803	224	166,596	9,915,884	397,238,400	40.06
1918	2,706	689,557	255	172,389	9,992,825	363,909,778	36.42
1917	2,920	758,292	260	151,658	9,718,259	333,353,438	34.30
1916	2,391	331,124	138	46,357	9,548,876	223,748,948	23.43
1915	2,439	686,232	281	85,779	9,762,951	210,674,415	21.58
1914	2,448	766,170	313	95,771	9,621,444	199,152,945	20.70
1913	2,400	592,016	247	74,002	9,541,537	168,455,253	17.65
1912	2,742	747,207	273	93,401	9,574,474	185,790,341	19.40
1911	3,207	815,129	254	101,891	9,718,741	179,974,358	18.52
1910	3,551	1,049,348	296	131,169	9,725,684	175,115,742	18.01
1909	3,506	1,001,653	286	125,207	9,578,323	167,966,577	17.54
1908	4,080	1,120,145	275	140,018	9,621,683	164,077,282	17.05
1907	4,530	1,585,500	350	198,187	9,750,615	176,354,759	18.09
1906	4,980	1,598,698	321	199,837	8,962,925	144,570,075	16.13
1905	5,509	1,846,659	335	230,832	8,897,898	142,804,431	16.05
1904	6,634	2,022,945	305	252,868	8,673,525	134,304,690	15.48
1903	7,805	2,612,778	335	326,597	8,731,405	136,657,807	15.65
1902	8,625	3,227,161	374	403,395	8,677,988	146,421,171	16.87
1901	9,221	3,199,967	347	399,996	8,667,512	128,325,648	14.81
1900	10,320	3,469,123	336	433,640	8,794,953	114,758,761	13.05
1899	11,891	3,674,035	309	459,254	8,753,926	105,771,321	12.08
1898	12,418	4,313,861	347	539,233	8,835,272	110,528,947	12.51
1897	12,025	4,433,628	369	554,204	8,701,705	106,952,471	12.29
1896	12,333	4,618,441	374	577,305	8,511,444	88,900,135	10.44
1895	13,002	4,581,373	352	572,672	8,321,173	99,655,895	11.98
1894	11,186	3,716,140	332	464,518	8,227,153	94,055,392	11.43
1893	9,288	2,971,450	320	371,431	8,054,612	101,886,557	12.65
1892	9,941	3,827,361	385	478,420	8,080,206	110,562,493	13.68
1891	9,858	3,814,016	387	476,752	7,834,213	130,866,023	16.70
1890	11,977	4,210,542	352	526,318	7,912,297	114,382,305	14.46
1889	11,261	3,431,959	305	428,995	7,758,583	106,500,799	13.73
1888	11,524	3,898,584	338	487,323	7,616,350	124,244,503	16.31
1887	9,110	2,105,686	231	263,210	7,429,084	99,583,524	13.40
1886	9,267	3,478,751	375	434,844	7,403,281	104,001,865	14.05
1885	9,024	3,462,319	384	432,790	7,350,443	110,068,586	14.97
1884	10,987	4,197,200	382	524,650	7,203,958	120,615,798	16.74
1883	11,270	3,984,436	354	498,055	7,542,623	114,754,141	15.21
1882	9,955	4,009,975	403	501,247	7,125,223	136,939,533	19.22
Annual Averages:							
1922–1931	2,001	324,073	162	58,164	10,148,736	225,244,606	22.19
1912–1921	2,568	626,100	244	118,422	*9,785,960	*267,211,002	27.31
1902–1911	5,243	1,688,002	322	211,000	9,233,879	156,824,689	16.98
1892–1901	11,163	3,880,538	348	485,068	8,494,796	106,139,762	12.49
1882–1891	10,243	3,659,347	351	457,417	7,517,606	116,195,708	15.48
1882–1931	6,279	2,035,612	324	266,014	9,036,195	174,523,153	19.31

*Including Flax, 1918–1921.

No statistics of "mixed grains" were taken previous to 1907, when an acreage of 443,100 was estimated.

STATISTICS OF FARM CROPS

The following table gives the area in Cleared Pasture, Summer Fallow, Orchards and Small Fruits, for the years 1909 to 1931. Strawberries and Vineyard for the years 1925–1931.

Years	Pasture (cleared)	Summer fallow	Orchard	Small fruits	Straw-berries	Vineyard
	acres	acres	acres	acres	acres	acres
1931	3,039,026	221,174	203,231	14,206	8,012	15,793
1930	3,149,460	247,067	212,232	12,376	7,286	11,586
1929	3,134,614	247,802	214,370	12,367	7,613	11,255
1928	3,000,172	211,015	207,003	12,733	7,773	8,855
1927	3,012,786	212,906	211,225	13,437	7,836	7,905
1926	3,077,424	189,488	215,779	13,672	7,274	7,545
1925	3,193,941	162,649	223,343	14,147	7,185	6,558
1924	3,317,532	179,527	229,708	27,315	....	....
1923	3,472,642	186,123	235,349	27,497	....	....
1922	3,401,033	198,841	239,914	27,242	....	....
1921	3,401,998	260,277	242,921	26,175	....	....
1920	3,432,620	216,377	248,395	25,635	....	....
1919	3,499,802	276,337	257,006	25,244	....	....
1918	3,561,754	248,463	265,678	24,596	....	....
1917	3,509,945	232,679	280,326	21,964	....	....
1916	3,409,581	331,736	280,653	22,817	....	....
1915	3,350,420	226,217	288,825	23,443	....	....
1914	3,302,503	268,714	298,627	23,863	....	....
1913	3,120,146	268,487	306,764	24,360	....	....
1912	3,082,671	278,317	310,096	24,699	....	....
1911	3,116,768	279,220	303,188	25,360	....	....
1910	3,159,712	254,038	298,347	24,384	....	....
1909	3,180,780	231,707	300,364	24,614	....	....

1909–1924 Strawberries and Vineyard included in Small Fruits.

STATISTICS OF FARM CROPS

ALSIKE AND SWEET CLOVER

The following table gives the area, produce and market value of Alsike and Sweet Clover for the years 1925 to 1931.

Years	Alsike				Sweet Clover			
	Acres	Tons	Per acre	Market value	Acres	Tons	Per acre	Market value
				$				$
1931	97,128	152,516	1.57	1,276,341	306,067	669,446	2.19	4,519,783
1930	141,480	206,020	1.46	2,010,571	338,234	704,281	2.08	5,363,894
1929	189,848	289,560	1.53	2,958,780	388,106	803,576	2.07	6,595,169
1928	155,867	235,325	1.51	2,457,119	413,468	924,608	2.24	7,067,707
1927	176,870	290,345	1.64	2,991,247	400,296	927,342	2.32	7,075,797
1926	129,477	179,664	1.39	2,217,556	365,102	810,852	2.22	7,222,221
1925	177,382	259,649	1.46	2,855,850	344,114	792,340	2.30	7,144,050

STATISTICS OF FARM CROPS

Ratios of Area under Crop

The following table shows the number of acres under the various crops per 1,000 acres of cleared land for the years 1882 to 1931, together with the annual averages for the various periods of ten years and for the whole term of years.

Year	Fall Wheat	Spring Wheat	Barley	Oats	Peas	Beans	Rye	Buckwheat	Corn	Potatoes	*Roots	Hay and Clover	Mixed Grains
1931	34.6	6.5	28.8	153.5	3.9	5.0	4.1	11.8	25.6	11.1	9.2	188.3	66.7
1930	44.6	6.5	40.2	162.6	5.3	4.4	3.5	18.1	29.1	10.5	9.4	187.7	63.1
1929	45.6	7.0	41.0	154.0	5.2	4.2	3.4	19.4	26.9	9.8	9.3	192.2	58.9
1928	45.8	7.2	40.6	175.5	7.3	3.4	4.4	17.9	27.0	12.0	10.1	185.5	59.8
1927	49.6	7.9	34.0	177.7	7.0	3.1	4.8	16.5	28.4	10.6	9.5	187.1	52.8
1926	53.4	7.6	29.7	187.3	6.5	3.4	5.7	15.5	36.2	10.2	9.8	191.1	51.0
1925	49.5	7.5	28.9	187.9	8.8	4.0	6.5	17.1	38.5	10.8	9.8	234.7	45.1
1924	47.9	6.7	29.1	191.7	8.7	3.5	8.4	15.9	44.2	11.2	9.6	235.1	42.8
1923	47.6	7.4	30.1	197.1	7.8	2.7	8.2	15.3	46.2	10.9	8.3	238.9	43.1
1022	54.2	8.3	28.9	202.1	7.0	2.7	10.2	13.2	46.9	11.5	8.4	238.1	36.8
1921	41.4	10.2	30.8	206.1	7.1	1.8	8.2	9.9	45.9	10.9	8.8	236.5	41.2
1920	51.0	17.9	32.4	192.5	7.3	1.5	8.9	9.6	46.3	10.5	10.4	247.1	38.9
1919	41.6	24.2	38.2	179.5	8.5	1.5	9.4	12.0	41.7	10.6	9.9	245.3	42.2
1918	24.5	23.8	44.6	197.6	7.7	6.8	7.6	15.1	38.9	11.2	10.3	244.2	41.9
1917	39.8	12.4	37.4	187.6	6.1	7.5	9.0	10.4	52.3	10.0	11.4	240.9	35.0
1916	47.9	9.8	35.9	183.0	6.5	3.7	10.1	15.6	47.5	9.5	10.8	236.2	33.1
1915	55.5	11.1	37.8	196.4	8.7	4.3	11.9	13.2	51.5	11.9	11.9	221.0	32.5
1914	47.0	8.1	39.7	190.2	12.2	3.5	9.5	12.1	48.6	11.5	11.5	234.0	31.3
1913	44.5	8.0	43.0	186.0	12.2	4.6	8.2	15.7	47.4	11.0	12.0	236.2	28.5
1912	52.6	8.5	44.8	180.1	15.3	4.8	7.4	14.3	47.0	11.0	12.8	233.1	31.0
1911	58.2	9.3	42.9	187.7	21.2	3.6	6.9	13.1	44.8	11.3	13.4	229.6	33.8
1910	51.9	9.0	43.7	192.5	28.2	3.5	6.6	13.6	45.2	11.8	14.5	223.7	34.8
1909	46.5	9.5	48.8	189.0	26.7	3.2	6.6	12.4	42.9	11.9	14.5	226.5	33.3
1908	48.1	10.1	51.9	196.3	28.1	3.3	6.2	9.9	37.7	11.8	14.9	230.2	32.3
1907	47.9	10.2	54.3	207.7	24.1	3.4	4.8	8.0	38.2	12.6	15.1	233.0	31.4
1906	55.8	12.2	53.6	192.6	29.1	3.6	5.7	7.5	33.3	9.7	14.7	217.6	.....
1905	57.2	13.6	55.5	191.5	26.9	3.6	7.3	7.3	34.4	9.5	15.1	216.8	.....
1904	43.8	16.3	55.9	192.2	24.6	3.7	9.5	7.3	37.9	9.7	15.3	211.9	.....
1903	48.8	18.2	52.0	193.4	29.9	3.9	13.1	7.0	43.2	10.2	16.4	204.0	.....
1902	55.2	22.3	48.8	184.3	39.2	4.0	13.9	6.9	42.9	10.7	16.3	195.0	.....
1901	67.8	26.6	47.4	179.3	44.9	4.0	11.8	6.6	38.8	11.5	16.1	190.3	.....
1900	80.4	28.3	43.4	180.4	49.8	3.3	10.7	7.7	38.4	12.3	16.7	190.0	.....
1899	80.1	30.4	37.4	180.3	56.7	3.1	10.5	10.1	38.6	12.8	16.6	191.1	.....
1898	80.7	30.0	33.8	182.9	66.6	3.4	12.7	11.5	40.1	13.1	16.4	188.8	.....
1897	73.9	25.2	35.1	189.3	69.8	3.9	14.6	11.8	42.3	13.2	15.7	182.2	.....
1896	69.2	20.2	36.5	191.4	65.5	5.4	11.7	11.5	39.2	14.1	15.4	191.5	.....
1895	59.8	18.0	38.5	191.0	64.4	5.8	9.7	10.9	36.4	14.9	16.0	204.2	.....
1894	63.4	18.7	39.6	190.6	63.9	4.8	7.3	11.8	30.8	13.6	15.2	209.6	.....
1893	75.5	29.4	38.6	159.9	61.0	4.0	5.6	11.0	25.9	11.8	13.9	228.4	.....
1892	80.6	54.3	41.7	155.3	64.6	2.8	6.1	10.4	22.8	12.2	13.4	209.8	.....
1891	72.0	43.3	46.9	156.0	63.8	3.5	5.7	9.1	20.4	13.6	13.4	216.1	.....
1890	61.8	51.6	60.2	161.5	67.0	3.4	8.8	7.7	19.2	13.6	12.7	211.2	.....
1889	71.6	34.7	76.3	167.6	61.7	1.9	7.9	4.9	16.3	12.7	12.5	208.0	.....
1888	73.2	32.5	79.2	163.6	61.6	2.0	7.4	5.1	19.7	13.6	12.9	202.8	.....
1887	80.8	43.6	69.1	151.5	65.4	1.9	6.2	5.8	14.7	12.6	11.9	205.3	.....
1886	81.0	52.8	67.3	148.3	64.4	1.9	6.2	6.5	14.3	12.8	11.5	209.8	.....
1885	80.6	73.6	55.1	142.2	59.5	2.3	7.2	5.7	15.5	14.7	11.7	208.9	.....
1884	80.5	67.2	65.2	138.0	53.2	2.3	9.6	6.7	16.3	15.7	12.4	204.3	.....
1883	104.1	55.6	71.8	134.6	51.5	2.5	17.8	6.4	20.3	15.8	12.0	223.1	.....
1882	116.8	57.7	83.4	136.4	55.1	1.9	18.2	4.9	20.3	15.8	10.3	179.5	.....
Annual Averages:													
1922–1931	47.3	7.3	33.1	178.9	6.7	3.6	5.9	16.1	34.9	10.9	9.3	207.8	52.0
1912–1921	44.5	13.4	38.4	189.9	9.1	4.0	9.0	12.9	46.6	10.0	11.0	237.5	35.6
1902–1911	51.3	13.0	50.7	192.8	27.7	3.6	8.0	9.4	40.1	10.9	15.8	219.0	†33.1
1892–1901	73.2	28.0	39.2	180.2	60.5	4.1	10.1	10.3	35.5	12.9	15.6	198.2	.....
1882–1891	81.6	50.9	67.2	150.4	60.5	2.4	9.4	6.2	17.7	14.0	12.2	207.1	.....
1882–1931	58.0	20.8	44.6	179.8	30.5	3.6	8.4	11.3	35.8	11.8	13.5	211.7	‡41.8

*Mangels, turnips, carrots and sugar beets. †1907–1911. ‡1907–1931.

STATISTICS OF FARM CROPS

Market Prices

The following table gives the average Market Prices of Agricultural Products for the years 1882 to 1931, together with the annual averages for the various periods of ten years and for the whole term of years.

Years	Fall Wheat per bush.	Spring Wheat per bush.	Oats per bush.	Barley per bush.	Peas per bush.	Beans per bush.	Rye per bush.	Buckwheat per bush.	Corn (in ear) per bush.	Hay per ton	Potatoes per bush.
	cents	cents	cents	cents	cents	$ c.	cents	cents	cents	$ c.	cents
1931.........	51.6	50.9	25.0	36.5	62.6	.58	41.9	42.3	26.5	8.43	23.6
1930.........	66.3	65.5	29.7	35.9	104.8	1.44	48.5	51.7	46.2	10.42	59.7
1929.........	124.0	125.2	62.4	76.5	163.0	3.03	97.1	83.2	66.8	11.28	108.0
1928.........	122.0	119.2	55.5	74.2	152.8	3.83	95.2	81.5	68.1	11.23	55.8
1927.........	124.7	122.1	57.3	77.6	149.8	2.35	95.3	77.9	66.3	11.02	88.2
1926.........	125.1	125.1	51.8	68.0	150.6	2.34	87.2	77.0	53.5	12.75	112.9
1925.........	133.6	133.0	45.2	68.1	135.5	2.11	87.1	73.2	55.7	11.61	136.9
1924.........	133.9	137.0	54.2	82.2	151.1	2.29	107.5	86.7	70.2	10.91	53.5
1923.........	96.2	96.3	45.4	62.8	144.8	2.43	73.7	73.2	50.3	11.05	74.8
1922.........	104.6	105.1	43.5	61.3	140.3	2.54	78.4	73.5	46.6	12.03	51.0
1921.........	110.5	109.4	50.4	65.7	153.0	2.35	82.6	74.0	39.4	19.27	88.2
1920.........	193.4	183.8	58.2	93.8	193.3	2.88	142.0	105.5	66.4	24.25	99.2
1919.........	237.2	240.9	97.7	145.8	263.9	4.00	159.1	140.7	108.2	22.68	165.2
1918.........	210.9	208.6	75.0	103.6	217.7	4.49	151.7	135.0	104.9	18.13	99.3
1917.........	209.8	209.7	77.9	125.7	321.0	6.91	162.6	142.9	124.0	11.81	123.2
1916.........	161.3	162.2	66.0	101.9	210.5	5.46	118.8	109.0	74.3	10.60	130.1
1915.........	97.1	98.6	39.5	56.0	161.6	3.11	78.9	71.5	45.4	14.51	81.4
1914.........	109.1	107.9	49.5	64.3	136.6	2.14	84.9	71.5	45.7	14.55	44.0
1913.........	85.0	87.9	36.9	55.5	100.6	1.70	66.2	63.5	43.0	13.07	63.7
1912.........	91.7	90.0	38.6	58.7	110.3	1.93	70.0	54.5	37.2	11.77	63.7
1911.........	86.6	90.7	44.2	73.9	98.2	1.90	84.9	60.4	44.2	13.16	84.2
1910.........	86.6	89.6	35.0	52.0	80.7	1.55	63.2	50.0	37.3	9.91	49.2
1909.........	102.3	100.6	39.5	54.8	84.6	1.61	67.4	53.4	42.9	12.81	36.5
1908.........	89.2	90.8	40.3	52.4	82.7	1.48	69.7	54.2	40.0	10.25	47.9
1907.........	92.7	86.4	48.8	59.4	78.0	1.52	69.4	57.4	28.4	15.11	58.3
1906.........	70.7	68.9	34.0	45.0	70.6	1.39	60.9	49.5	37.6	9.10	53.8
1905.........	76.5	74.9	33.6	42.9	65.3	1.32	56.8	50.0	36.9	7.72	46.0
1904.........	98.7	94.2	32.3	43.7	63.0	1.22	57.6	48.6	37.4	7.97	50.7
1903.........	75.1	74.4	29.3	42.1	64.3	1.41	48.6	44.3	36.9	7.94	44.1
1902.........	70.7	69.6	34.8	45.1	71.0	1.35	50.5	48.0	40.6	8.15	56.5
1901.........	66.1	66.8	36.2	45.0	65.3	1.25	49.3	48.4	38.0	7.99	42.6
1900.........	66.4	67.5	26.5	38.9	57.1	1.00	48.5	43.7	31.7	8.48	26.1
1899.........	66.7	66.5	27.7	39.5	57.3	1.08	50.0	45.5	19.8	7.72	32.8
1898.........	69.4	69.2	25.8	38.0	52.2	.70	43.5	38.2	20.1	6.22	44.1
1897.........	78.2	78.6	22.6	27.0	42.1	.65	37.7	30.0	19.7	7.18	39.9
1896.........	71.0	70.6	20.0	31.6	44.0	.68	36.6	30.5	19.6	9.68	26.1
1895.........	69.3	69.8	29.1	40.4	54.8	.95	45.6	36.8	22.6	12.30	20.2
1894.........	55.0	55.5	30.8	40.5	53.6	1.10	44.2	39.2	26.1	7.56	35.4
1893.........	59.9	59.4	33.2	40.1	54.0	1.18	47.5	41.8	26.5	7.64	39.5
1892.........	70.7	67.8	30.8	41.3	59.0	.99	55.8	42.2	26.3	8.20	50.4
1891.........	95.1	92.9	36.5	49.1	63.8	1.06	72.3	44.1	31.1	11.91	32.6
1890.........	94.2	91.3	41.1	50.2	60.3	1.29	52.7	43.0	30.5	7.95	44.4
1889.........	88.4	88.1	30.5	44.0	55.7	1.27	50.9	39.5	25.9	9.98	45.5
1888.........	102.4	99.3	40.5	60.1	65.4	1.14	60.2	49.3	29.3	16.17	31.7
1887.........	78.4	78.0	34.6	56.7	55.9	.98	49.5	45.0	28.7	11.62	62.8
1886.........	73.6	72.5	32.0	51.3	52.6	.84	52.2	33.7	27.6	9.69	44.9
1885.........	81.5	80.6	31.5	55.2	58.0	.80	55.2	39.2	27.9	9.85	41.1
1884.........	80.5	81.4	33.1	53.6	64.4	1.18	59.7	40.0	45.0	9.56	40.0
1883.........	105.0	107.0	38.0	57.0	71.0	......	62.0	......	......	9.02	62.0
1882.........	101.0	106.0	43.0	65.0	74.0	1.97	64.0	40.0	40.0	11.54	64.0
Annual Averages:											
1922–1931	110.6	108.5	47.1	64.2	139.3	2.23	83.2	73.3	54.4	11.08	72.6
1912–1921	144.5	171.6	58.5	86.0	172.3	2.35	111.4	94.4	62.3	15.88	90.1
1902–1911	83.6	81.2	36.7	50.1	74.8	1.48	60.2	52.4	38.2	9.97	51.4
1892–1901	67.8	67.5	27.9	38.5	53.5	.93	44.9	38.7	25.0	7.97	33.6
1882–1891	90.0	89.6	34.3	54.5	61.6	1.16	60.0	41.5	......	10.34	45.0
1882–1931	97.9	97.7	42.4	58.9	71.0	1.92	72.6	66.6	*42.8	11.27	58.4

*Average for 40 years, 1892-1931.

STATISTICS OF LIVE STOCK

Number of Live Stock on Hand

The following table give the number of Horses, Cattle, Sheep, Swine and Poultry on hand in June of each year for the fifty years, 1882–1931.

Years	Horses	Cattle	Sheep	Swine	Poultry
	No.	No.	No.	No.	No.
1931	578,157	2,509,205	1,044,355	1,359,176	23,736,125
1930	606,719	2,675,488	1,134,457	1,661,556	22,560,260
1929	606,505	2,671,594	1,130,395	1,681,263	22,045,091
1928	609,249	2,682,053	1,014,106	1,833,538	19,703,576
1927	617,136	2,709,954	956,267	1,883,177	19,048,045
1926	629,659	2,757,799	886,483	1,735,355	17,693,000
1925	644,138	2,809,373	868,526	1,678,595	17,778,581
1924	663,875	2,917,302	870,279	1,807,903	16,751,345
1923	673,371	2,838,087	907,673	1,734,734	15,203,384
1922	685,852	2,836,181	986,617	1,553,434	13,964,317
1921	694,237	2,890,113	1,081,828	1,563,807	11,458,206
1920	704,640	2,881,827	1,129,084	1,614,356	11,005,645
1919	719,569	2,927,191	1,101,740	1,695,487	11,705,809
1918	732,977	2,867,722	972,341	1,656,386	12,281,105
1917	765,873	2,827,609	956,986	1,664,639	13,606,292
1916	775,732	2,734,767	908,066	1,735,254	14,377,844
1915	779,131	2,674,746	908,095	1,769,295	14,273,091
1914	774,544	2,604,628	922,375	1,770,533	14,175,214
1913	751,726	2,628,845	996,155	1,618,734	13,511,383
1912	742,139	2,624,780	1,021,848	1,702,652	13,024,938
1911	737,916	2,593,205	1,040,245	1,744,983	12,942,293
1910	724,384	2,567,128	1,065,101	1,561,042	12,460,787
1909	728,308	2,668,584	1,130,667	1,551,187	12,086,580
1908	726,471	2,824,859	1,143,898	1,818,763	12,285,613
1907	725,666	2,926,236	1,106,083	2,049,666	13,428,076
1906	688,147	2,963,618	1,304,809	1,819,778	10,254,824
1905	672,781	2,889,503	1,324,153	1,906,460	9,738,493
1904	655,554	2,776,304	1,455,482	2,008,984	9,412,683
1903	639,581	2,674,261	1,642,627	1,977,386	9,683,573
1902	626,106	2,562,584	1,715,513	1,684,635	9,762,808
1901	620,343	2,507,620	1,761,799	1,491,885	9,745,236
1900	617,309	2,429,330	1,797,213	1,771,641	9,541,241
1899	615,524	2,318,355	1,772,604	1,971,070	9,344,024
1898	611,241	2,215,943	1,677,014	1,640,787	9,084,273
1897	813,670	2,182,326	1,690,350	1,284,963	8,435,341
1896	624,749	2,181,958	1,849,348	1,269,631	7,734,167
1895	647,696	2,150,103	2,022,735	1,299,072	7,752,840
1894	674,777	2,099,301	2,015,805	1,142,133	7,552,662
1893	685,187	2,057,882	1,935,938	1,012,022	7,114,436
1892	688,814	2,029,140	1,850,473	996,974	7,078,973
1891	678,459	1,978,815	1,693,751	1,156,316	7,006,090
1890	659,636	1,894,712	1,339,695	1,140,559	6,854,864
1889	618,795	1,891,899	1,344,180	835,469	6,304,298
1888	596,218	1,928,638	1,349,044	819,079	6,164,114
1887	575,361	1,948,264	1,396,161	832,817	6,438,361
1886	569,649	2,018,173	1,610,949	860,125	6,968,915
1885	558,809	1,976,480	1,755,605	822,262	6,336,805
1884	535,953	1,925,670	1,890,733	916,158	6,237,606
1883	560,133	1,828,613	1,868,784	906,727	5,847,344
1882	503,604	1,586,312	1,915,303	850,226	5,352,120

VALUE OF LIVE STOCK ON HAND

The following table gives the value of Horses, Cattle, Sheep, Swine and Poultry on hand in June of each year for the fifty years, 1882–1931, except for the ten years, 1882–1891, when farm live stock was valued in bulk.

Years	Horses	Cattle	Sheep	Swine	Poultry	Total
	$	$	$	$	$	$
1931	50,528,572	91,834,417	6,652,107	11,987,324	10,729,925	171,732,345
1930	60,606,827	136,496,344	10,835,770	18,643,164	13,372,682	239,954,787
1929	66,603,793	150,480,760	12,457,554	20,430,803	13,473,814	263,446,724
1928	67,085,352	128,937,680	11,209,872	19,808,890	12,452,203	239,493,997
1927	66,724,527	117,162,152	10,433,761	24,159,535	12,333,645	231,145,720
1926	68,239,756	115,386,214	9,688,685	24,525,126	12,400,985	230,240,766
1925	69,787,791	115,844,069	9,576,722	24,424,238	13,527,454	233,160,274
1924	72,617,565	113,046,599	7,081,500	16,201,699	13,446,621	222,393,984
1923	74,542,351	109,467,066	6,597,087	19,018,668	12,401,083	222,026,255
1922	74,535,855	103,899,416	6,612,959	16,550,636	12,241,252	213,840,118
1921	75,680,750	103,861,565	8,207,564	19,205,488	11,168,318	218,123,685
1920	89,606,594	176,897,490	16,191,741	32,253,804	11,787,708	326,737,337
1919	92,823,683	184,041,594	18,128,240	33,263,051	11,351,364	339,607,932
1918	95,710,928	172,259,261	15,690,055	31,140,181	9,307,051	324,107,476
1917	99,439,558	150,309,828	9,946,030	21,464,366	8,517,195	289,676,977
1916	101.434,391	128,324,526	7,386,710	18,790,755	7,933,157	263,869,539
1915	107,982,037	115,363,336	6,403,907	17,562,726	7,670,326	254,982,332
1914	112,576,793	106,635,148	6,155,451	17,951,258	7,551,428	250,870,078
1913	113,240,047	95,759,022	6,242,672	15,393,192	6,956,952	237,591,885
1912	109,000,214	90,403,902	6,181,595	14,141,908	6,121,323	225,848,942
1911	103,373,206	84,634,962	6,213,021	14,593,917	5,905,318	214,720,424
1910	92,757,431	76,872,723	6,127,018	13,265,834	5,393,031	194,416,037
1909	87,682,689	75,247,197	6,262,493	11,144,135	4,411,386	184,747,900
1908	85,847,391	77,255,267	6,336,265	12,135,979	4,439,854	186,014,756
1907	85,041,144	79,485,780	5,928,325	14,174,502	4,854,381	189,484,132
1906	79,814,953	80,303,276	6,721,119	12,770,708	3,697,338	183,307,394
1905	73,911,177	76,764,482	6,191,774	12,280,667	3,335,660	172,483,760
1904	68,138,228	72,821,003	6,425,100	12,921,743	3,077,029	163,383,103
1903	61,811,456	69,289,924	7,228,498	13,023,743	2,973,646	154,327,267
1902	55,173,637	63,517,342	7,634,284	11,262,265	2,957,286	140,544,814
1901	50,038,465	59,527,119	7,772,793	9,298,712	2,859,172	129,496,261
1900	46,916,999	56,320,810	7,711,496	9,598,153	2,727,363	123,274,821
1899	42,713,557	52,938,500	7,315,729	10,180,338	2,658,321	115,806,445
1898	38,659,896	47,286,254	6,499,695	8,720,242	2,578,136	103,744,223
1897	36,111,805	42,683,557	6,003,194	6,533,210	2,318,038	93,649,804
1896	37,185,692	44,383,638	6,652,202	6,505,227	2,130,807	96,857,566
1895	40,283,754	46,708,017	7,708,442	7,101,211	2,156,623	103,958,047
1894	46,245,614	47,577,587	8,606,671	6,909,262	2,208,518	111,547,652
1893	50,527,472	47,718,025	9,016,118	6,622,129	2,187,158	116,070,902
1892	55,812,920	45,548,475	8,569,557	5,479,093	2,091,450	117,501,495
1891	....	....	....	....	....	108,721,076
1890	....	....	....	....	....	104,086,626
1889	....	....	....	....	....	105,731,288
1888	....	....	....	....	....	102,839,235
1887	....	....	....	....	....	104,406,655
1886	....	....	....	....	....	107,208,935
1885	....	....	....	....	....	100,690,086
1884	....	....	....	....	....	103,106,829
1883	....	....	....	....	....	100,082,365
1882	....	....	....	....	....	80,540,720

VALUES PER HEAD OF LIVE STOCK AND POULTRY ON HAND FOR THE YEARS 1892 TO 1931

Years	Horses all Ages	Cattle		Sheep and Lambs	Swine all Ages	Poultry all Kinds
		Milch Cows	Other Cattle			
	$	$ c.	$ c.	$ c.	$ c.	$ c.
1931	87	52 79	22 49	6 37	8 81	45
1930	100	73 11	32 42	9 55	11 22	59
1929	110	80 34	35 61	11 02	12 15	61
1928	110	68 33	30 09	11 05	10 80	63
1927	108	60 92	27 05	10 91	12 83	65
1926	108	59 14	26 84	10 93	14 13	70
1925	108	58 55	27 70	11 03	14 55	76
1924	109	55 41	27 05	8 14	8 96	80
1923	111	55 24	25 14	7 27	10 96	82
1922	109	52 68	24 25	6 70	10 65	88
1921	109	51 56	24 77	7 59	12 28	97
1920	127	85 84	44 67	14 34	19 98	1 07
1919	129	88 71	46 37	16 45	19 62	97
1918	131	83 55	45 52	16 14	18 80	76
1917	130	75 54	39 55	10 39	12 89	63
1916	131	66 35	34 91	8 13	10 83	55
1915	139	60 83	32 18	7 05	9 93	54
1914	145	57 01	30 81	6 67	10 14	53
1913	151	50 56	27 29	6 27	9 51	51
1912	147	47 82	25 61	6 05	8 31	47
1911	140	45 31	24 07	5 97	8 36	46
1910	128	40 76	22 43	5 75	8 50	43
1909	120	38 19	21 45	5 54	7 18	37
1908	118	36 90	21 13	5 54	6 67	36
1907	117	36 43	21 15	5 36	6 92	36
1906	116	35 99	21 62	5 15	7 02	36
1905	110	35 06	21 29	4 68	6 44	34
1904	104	34 70	20 84	4 41	6 43	33
1903	97	34 15	20 58	4 40	6 59	31
1902	88	32 96	19 46	4 45	6 69	30
1901	81	31 74	18 57	4 41	6 23	29
1900	76	31 01	17 93	4 29	5 42	29
1899	69	30 31	17 41	4 13	5 16	28
1898	63	28 28	15 98	3 88	5 31	28
1897	59	26 13	14 58	3 55	5 08	27
1896	60	27 60	15 05	3 60	5 12	28
1895	62	29 74	16 08	3 81	5 47	28
1894	69	31 02	17 15	4 27	6 05	29
1893	74	31 63	17 78	4 66	6 54	31
1892	81	29 95	17 69	4 63	5 50	30

VALUE OF FARM PROPERTY

Land, Buildings, Implements and Live Stock

The following table gives the estimated values of Farm Land, Farm Buildings, Implements (including vehicles) and Live Stock on hand on June 15th, for the years 1882 to 1931.

Years	Land	Buildings	Implements	Live Stock on hand	Total
	$	$	$	$	$
1931	954,869,758	537,279,170	175,176,334	171,732,345	1,839,057,607
1930	962,861,922	540,570,877	177,648,862	239,954,787	1,921,036,448
1929	963,503,959	535,923,912	176,909,961	263,446,724	1,939,784,556
1928	940,311,406	518,209,271	171,181,259	239,493,997	1,869,195,933
1927	906,811,595	506,981,024	168,842,552	230,813,620	1,813,448,791
1926	876,177,637	493,551,144	164,478,485	230,240,766	1,764,448,032
1925	879,212,498	490,027,751	164,188,030	233,160,274	1,766,588,553
1924	885,348,351	484,539,016	164,021,854	222,393,984	1,756,303,205
1923	904,659,633	480,260,117	163,033,141	222,026,255	1,769,979,146
1922	880,896,544	479,451,680	163,830,154	213,840,118	1,738,018,496
1921	851,300,059	484,188,897	159,913,871	218,123,685	1,713,526,512
1920	861,116,234	467,010,867	153,780,378	326,737,337	1,808,644,816
1919	848,767,153	426,649,086	137,310,618	339,607,932	1,752,334,789
1918	819,164,298	380,244,880	109,896,874	324,107,476	1,633,413,528
1917	807,426,986	370,384,055	104,581,053	289,676,977	1,572,069,071
1916	794,676,866	357,313,850	98,020,295	263,869,539	1,513,880,550
1915	794,393,564	352,628,031	95,049,350	254,982,332	1,497,053,277
1914	790,538,706	347,348,643	91,703,876	250,870,078	1,480,461,303
1913	782,993,853	345,303,335	89,702,273	237,591,885	1,455,591,346
1912	758,729,268	335,141,520	86,231,210	225,848,942	1,405,950,940
1911	723,902,419	317,876,963	84,969,426	214,720,424	1,341,469,232
1910	700,905,425	306,517,941	81,570,981	194,416,037	1,283,410,384
1909	680,789,629	297,690,826	77,790,754	184,747,900	1,241,019,109
1908	671,531,018	288,180,121	74,485,730	186,014,756	1,220,211,625
1907	674,505,427	284,672,238	72,910,875	189,484,132	1,221,572,672
1906	661,199,920	273,414,187	71,197,619	183,307,394	1,189,119,120
1905	649,201,364	264,384,514	68,629,546	172,483,760	1,154,699,184
1904	640,544,541	257,995,484	65,992,210	163,383,103	1,127,915,338
1903	620,869,475	247,629,153	63,996,190	154,327,267	1,086,822,085
1902	604,860,063	237,289,668	62,199,787	140,544,814	1,044,894,332
1901	585,354,294	226,575,228	59,897,513	129,496,261	1,001,323,296
1900	574,727,610	219,488,370	57,324,130	123,274,821	974,814,931
1899	563,271,777	213,440,281	54,994,857	115,806,445	947,513,360
1898	556,246,569	210,054,396	52,977,232	103,744,223	923,022,420
1897	554,054,552	206,090,159	51,299,098	93,649,804	905,093,613
1896	557,468,270	205,235,429	50,730,358	96,857,566	910,291,623
1895	572,938,472	204,148,670	50,944,385	103,958,047	931,989,574
1894	587,246,117	204,071,566	51,530,172	111,547,652	954,395,507
1893	602,664,361	200,189,888	51,435,919	116,070,902	970,361,070
1892	615,828,471	195,644,258	51,003,020	117,501,495	979,977,244
1891	621,245,223	191,268,327	50,651,442	108,721,076	971,886,068
1890	622,886,000	193,438,826	50,515,583	104,086,626	970,927,035
1889	632,329,433	192,464,237	51,685,706	105,731,288	982,210,664
1888	640,480,801	188,293,226	49,754,832	102,839,235	981,368,094
1887	636,883,755	184,753,507	49,248,297	104,406,655	975,292,214
1886	648,009,828	183,748,212	50,530,936	107,208,935	989,497,911
1885	626,422,024	182,477,905	48,569,725	100,690,086	958,159,740
1884	625,478,707	173,386,925	47,830,710	103,106,828	949,803,170
1883	654,793,025	163,030,675	43,522,530	100,082,365	961,428,595
1882	632,342,500	132,712,575	37,029,815	80,540,720	882,625,610

Thirtieth Annual Report

OF THE

Temiskaming and Northern Ontario Railway Commission

ONTARIO GOVERNMENT RAILWAY
Hon. Geo. S. Henry, Premier

For the Year Ending October 31st

1931

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 23, 1932

ONTARIO

TORONTO
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1932

TO THE RIGHT HONOURABLE SIR WILLIAM MULOCK, K.C.M.G.,

Administrator of the Province of Ontario.

The undersigned has the honour to present the Thirtieth Annual Report of the Temiskaming and Northern Ontario Railway Commission.

Respectfully submitted,

GEO. S. HENRY
Prime Minister.

Toronto, February 11th, 1932.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION

GEO. W. LEE	Chairman, North Bay
LIEUT.-COL. L. T. MARTIN	Vice-Chairman, Ottawa
COL. J. I. McLAREN	Commissioner, Hamilton
W. H. MAUND	Secretary-Treasurer, North Bay

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

The railway has just closed another year's successful operation, comparing favourably with past records in volume of traffic and earnings, and I am pleased to report that the road has never been in better physical and financial condition.

* * * *

The northern part of Ontario holds enormous possibilities of advancement and enrichment in the near future consequent upon the continued advancement of the railway and the opening up of new territory.

* * * *

In that part of the Province served by the T. & N. O. Railway general conditions have been almost normal, with the exception of the unemployment situation which has proved of such serious moment to the country at large.

Due to fully maintained upkeep of the road and the undertakings of many additions and improvements; the railway has been able to practically maintain its entire staff intact, thereby avoiding adding to the prevailing unemployment conditions; and on the contrary was a source of relief through the continual employment of extra gangs for seasonable work, *et al.*

* * * *

The interests served are many and varied consisting in mining, agriculture, Hydro-Electric power, lumbering, pulp and paper mills, etc., with the general business requirements of cities and towns which have arisen along its line since its inception in 1903.

* * * *

The most important industry of Northern Ontario is the precious metal mining, which is steadily developing and increasing in output, as its existing mines are speeded up in production and new fields of importance and promise are opened for future development. Mining is not a seasonable work but continues day and night throughout the year, irrespective of weather conditions.

* * * *

As an indication of the value of the mining areas within the territory served by T. & N. O. Railway it is of interest to note that total dividends paid to the end of June, 1931, are as follows:

Cobalt, Silver Ore	$105,144,883 00
Porcupine, Gold Area	84,262,735 00
Kirkland Lake, Gold Area	30,239,814 00
Total	$219,647,432 00

* * * *

Canada now occupies second place in world gold production, having exceeded the United States in 1930.

Northern Ontario's gold mines are confidently expected to obtain a gross output of approximately forty (40) million dollars in 1932, and, in the meantime, due to present existing exchange conditions, are averaging close to $500,000.00 per month in premiums.

The reappearance of normal prosperous times will place upon the Province's tremendous production of various base metals added values such as those already attaching to her precious metal deliveries. As one of the world's great storehouses of mineralized ores, Ontario may be said to have erected her material framework over a treasure chest of inestimable wealth. And it is the known existence of her vast deposits of gold and silver, copper and nickel, platinum and radium which helps to raise Canada's credit among the nations to a place out of proportion with her age and size of population.

* * * *

To the sub-Arctic Circle, Ontario's Northern frontier has been pushed back one hundred and eighty-five miles (185) by this year's completion of main line extension north of Cochrane to Moosonee at James Bay.

Another chapter written in the well-filled history of the railway's progress and achievement.

* * * *

The Province of Ontario now has rail connections from the Great Lakes to the sub-Arctic regions, through a habitable and forested country, powered with great rivers and possessed of many natural resources in lignite, timber, gypsum, clay beds, pulpwood areas and enormous deposits of high grade iron ore, all of immense potential value. Part of the newly opened area has agricultural possibilities equal to those afforded in the great clay belt farther south.

* * * *

An ocean outlet for the Province is thus assured for coastal shipping and the development of natural resources on or adjacent to a two thousand mile shore line with navigable waters of James Bay.

It is possible that very valuable fishing grounds may be found eventually approaching that of the Great Lakes in volume and value of output.

* * * *

The continued policy of branch line construction and main line extension has resulted in bringing the mining, farming, lumber and general industries on the line of the railway into close proximity with business and financial centres of the Province and Eastern United States.

During the year under review Commission paid the sum of $240,000.00 to provide for matured interest on its debenture bond issue of $6,000,000.00 and insurance against loss by fire was carried in the sum of $3,500,000.00.

* * * *

The following condensed comparative statistics of the road's operation for 1930 and 1931 shows the following:

	1931	1930
Revenue—Transportation	$4,548,663 16	$4,599,025 95
Revenue—Incidental	387,522 25	360,815 59
Total	$4,936,185 41	$4,959,841 54
Decrease, 1931 (0.48 per cent.)	23,656 13	....
Expenditure—Operating	$3,553,688 07	$3,626,176 02
Other Expenditures	446,700 24	383,676 37
	$4,000,388 31	$4,009,852 39
Decrease, 1931 (0.23 per cent.)	9,464 08	....
Net Earnings	$935,797 10	$949,989 15
Decrease, 1931 (1.5 per cent.)	14,192 05	....

The gross revenue from all sources in 1931 shows a decrease of $23,656.13 (0.48 per cent.) as compared with 1930, but a gross expenditure decrease of $9,464.08 (0.23 per cent.) while the net revenue is decreased $14,192.05 (1.5 per cent.) compared with preceding fiscal year.

* * * *

The result of the current year's operation has proved exceedingly satisfactory considering the period of general business depression through which we are passing and which has particularly affected the earnings of the railways.

In conclusion, I am pleased to report that the railway has been fully maintained and the road-bed and equipment kept up to Commission's high standard.

We enter the new year with a spirit of optimism born of achievement.

Geo. W. Lee,
Chairman.

AUDITORS' REPORT

EDWARDS, MORGAN & COMPANY
TORONTO, ONTARIO

December 21st, 1931.

GEORGE W. LEE, ESQ., Chairman,
Temiskaming and Northern Ontario
Railway Commission, North Bay, Ontario.

DEAR SIR:

On your instructions we have conducted an audit of the Treasurer's accounts of the Temiskaming and Northern Ontario Railway and the Nipissing Central Railway for the year ending October 31st, 1931, and have satisfied ourselves that all receipts have been properly accounted for, and that satisfactory vouchers are on hand to cover disbursements. We have checked the balances in the hands of the Treasurer and find them to be in agreement with the accounts as shown by the general ledgers.

The accounts of the Treasurer are in good order and well kept. All information asked for has been cheerfully given. We also wish to acknowledge the courtesies of the Commission and its employees at all times.

Yours very truly,

EDWARDS, MORGAN AND COMPANY.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY COMMISSION

Mileage operated at the close of the fiscal year was as follows:

	Miles	Total Miles
MAIN LINE:		
North Bay to Cochrane	252.29	
Cochrane to Coral Rapids	96.80	
		349.09
BRANCH LINES:		
Lorrain branch	17.00	
Elk Lake branch	28.50	
Charlton branch	7.60	
Iroquois Falls branch	7.00	
Porcupine branch	33.11	
		93.21
OTHER TRACKS:		
Yard tracks and sidings	112.32	
Mattagami River spur	2.96	
Kerr Lake spur	1.25	
Double track	1.70	
		118.23
PRIVATE SIDINGS OPERATED BY RAILWAY:		
Private siding agreement	21.15	
Owned by private companies	.84	
		21.99
Total Mileage		582.52
SIDINGS OPERATED BY PRIVATE COMPANIES:		
Private siding agreement		7.12
LEASED TO NIPISSING CENTRAL RAILWAY:		
Main track	5.85	
Sidings	1.04	
		6.89
Total Mileage		596.53

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

PURCHASING AND STORES DEPARTMENT

Statement of Purchases and Issues, Fiscal Year, 1930-1931

Stock	1930 Purchases	1930 Issues	1931 Purchases	1931 Issues
Shop	$614,393 44	$642,826 04	$546,722 68	$568,435 52
Soft coal	581,761 88	606,835 06	524,251 41	568,204 87
Hard coal	18,933 28	19,238 06	19,318 27	19,161 92
Oil and waste	23,135 60	25,467 45	23,062 30	22,918 10
Stationery	31,527 69	32,338 74	31,520 68	30,794 87
Rail	378,118 29	439,355 41	397,785 60	411,996 34
Tie	320,677 47	291,937 27	199,799 33	253,365 33
Ice	10,824 15	11,444 80	10,817 44	12,234 33
	$1,979,371 80	$2,069,442 83	$1,753,277 71	$1,887,111 28
Total purchases	$1,979,371 80	....	$1,753,277 71	....
Total issues	2,069,442 83	....	1,887,111 28	....
	$4,048,814 63	....	$3,640,388 99	....

GENERAL BALANCE SHEET, OCTOBER 31st, 1931

Assets

Property Owned		
Cost of road	$32,771,834 67	
Cost of equipment	5,416,014 96	
		$38,187,849 63
Nipissing Central Railway		4,699,953 46
Restaurants and news equipment		11,117 67
Current Assets:		
Cash	$230,695 52	
Accounts collectible	329,234 82	
Balance due on townsite sales	5,543 80	
Agents and conductors	49,930 90	
Traffic balance—freight	159,119 40	
Traffic balance—tickets	7,322 64	
Material and supplies	600,017 01	
Ballast pit operations	51,526 79	
Other assets	7,175 57	
		1,440,566 45
Deferred Assets:		
Pension department		172,369 66
Unadjusted Debits:		
Surveys	$41,088 91	
Insurance premiums paid in advance	1,092 72	
Treasurer's advance	250 00	
Discount—funded debt	141,418 20	
Accounts in suspense	1,154 73	
		185,004 56
		$44,696,861 43

Liabilities

Provincial loan account		$30,207,934 92
Long Term Debt:		
Funded debt unmatured		6,000,000 00
Current Liabilities:		
Demand loans	$5,075,000 00	
Audited accounts and wages payable	1,475,014 34	
Traffic balance—car service	18,649 43	
Debenture interest	60,480 00	
		6,629,143 77
Deferred Liabilities:		
Pension fund reserve		172,369 66
Unadjusted Credits:		
Accrued depreciation	$1,309,527 37	
Fidelity insurance reserve	2,000 00	
Restaurants' equipment renewals reserve	2,570 90	
New agents' security deposit	70 00	
Accounts in suspense	5,676 66	
		1,319,844 93
Free Surplus:		
Profit and loss—balance		367,568 15
		$44,696,861 43

Profit and Loss

Paid Treasurer of Ontario	$850,000 00
Profit and loss on retired road and equipment	43,919 42
Unclaimed wages	278 74
Balance carried forward	367,568 15
	$1,261,766 31

By balance—October 31st, 1930	$319,502 55
Result operation for year ended October 31st, 1931	935,797 10
Townsites	674 31
Unclaimed vouchers	4 85
Adjustment material accounts to inventory	5,787 50
	$1,261,766 31

COMPARATIVE STATEMENT OF EARNINGS, EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1929 TO OCTOBER 31st, 1931

	REVENUE	Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
	TRANSPORTATION	$ c.	$ c.
101.	Freight	3,457,937 44	3,336,628 11
102.	Passenger	838,019 24	997,649 44
103.	Excess Baggage	8,593 46	8,989 89
105.	Parlour and chair car	792 40	1,328 60
106.	Mail	63,521 53	64,244 80
107.	Express	159,778 54	169,418 32
109.	Milk	2,654 65	1,619 43
110.	Switching	16,475 38	15,196 36
111.	Special Service Train	890 52	3,951 00
	Total	4,548,663 16	4,599,025 95
	INCIDENTAL		
131.	Dining and Buffet	22,211 60	27,531 95
132.	Restaurant and News	65,094 58	71,389 55
133.	Station, Train and Boat Privileges	674 16	2,733 68
135.	Storage—Freight	1,793 24	1,744 41
136.	Storage—Baggage	651 00	562 10
137.	Demurrage	6,260 18	9,599 00
138.	Telegraph and Telephone	204,424 40	205,864 83
142.	Rents of Buildings and Other Property	23,056 01	22,181 91
143.	Miscellaneous	63,357 08	19,208 16
	Total	387,522 25	360,815 59
	JOINT FACILITY		
152.	Joint Facility—Dr	159 36	289 44
	Total	159 36	289 44
	Total Revenue	4,936,026 05	4,959,552 10

EXPENDITURES		
Maintenance of Way and Structures	838,699 44	821,105 31
Maintenance of Equipment	749,651 18	753,645 28
Traffic	27,546 52	28,680 60
Transportation	1,614,367 89	1,667,357 08
Miscellaneous Operations	173,432 35	175,060 23
General	212,735 97	215,078 78
Transportation for Investment—Cr	62,745 28	34,751 26
Total Operating Expenses	3,553,688 07	3,626,176 02
Balance	1,382,337 98	1,333,376 08

OTHER INCOME		
Ore royalties	Dr. 5,257 35	Dr. 4,568 73
Hire of freight cars	Dr. 146,775 39	Dr. 177,666 30
Rent—locomotives	5,225 97	16,061 27
Rent—passenger-train cars	Dr. 3,273 74	Dr. 430 99
Rent—work equipment	4,280 16	7,666 35
Joint facility rent income	27,251 08	27,214 43
Joint facility rents	Dr. 4,165 00	Dr. 4,372 00
Interest and exchange	Dr. 47,077 10	Dr. 44,960 00
Interest—funded debt	Dr. 240,000 00	Dr. 205,978 33
Amortization of discount—funded debt	Dr. 60,607 80	....
Miscellaneous income	23,858 29	3,647 37
Total	Dr. 446,540 88	Dr. 383,386 93
Net Result	935,797 10	949,989 15

Maintenance of Way and Structures

		Nov. 1st, 1930 to Oct. 31st, 1931		Nov. 1st, 1929 to Oct. 31st, 1930	
		$	c.	$	c.
201.	Superintendance	31,482	67	31,943	47
202.	Roadway maintenance	118,807	23	130,382	25
208.	Bridges, trestles and culverts	56,424	75	26,307	78
212.	Ties	116,415	51	109,638	20
214.	Rails	72,095	02	61,306	91
216.	Other track material	27,776	59	45,814	27
218.	Ballast	20,403	92	12,396	36
220.	Track-laying and surfacing	247,462	97	247,063	85
221.	Right-of-way fences	5,146	19	2,460	95
223.	Snow and sand fences and snow sheds	2	69	....	
225.	Crossings and signs	2,581	03	3,020	88
227.	Station and office buildings	40,464	75	32,941	18
229.	Roadway buildings	7,246	87	4,512	43
231.	Water stations	8,874	37	9,241	02
233.	Fuel stations	1,992	93	6,092	27
235.	Shops and engine houses	12,059	97	14,344	60
247.	Telegraph and telephone lines	11,485	21	10,283	04
253.	Power plant buildings	612	38	413	20
257.	Power transmission systems	203	11	60	70
259.	Power distribution systems	327	17	65	46
265.	Miscellaneous structures	....		12	27
269.	Roadway machines	7,011	12	8,494	70
271.	Small tools and supplies	11,600	54	14,194	97
272.	Removing snow, ice and sand	47,427	00	55,236	47
273.	Assessments for public improvements	186	14	48	80
274.	Injuries to persons	6,933	50	5,989	02
275.	Insurance	4,480	57	4,702	13
276.	Stationery and printing	1,795	23	1,671	68
277.	Other expenses	Cr. 247	55	4,061	80
278.	Maintaining joint tracks, yards and other facilities —Dr.	1,618	00	1,826	00
279.	Maintaining joint tracks, yards and other facilities —Cr.	23,970	44	23,421	35
280.	Equalization—ways and structures—Dr.	332,193	27	285,142	75
280.	Equalization—way and structures—Cr.	332,193	27	285,142	75
	Total	838,699	44	821,105	31

Maintenance of Equipment

		Nov. 1st, 1930 to Oct. 31st, 1931		Nov. 1st, 1929 to Oct. 31st, 1930	
		$	c.	$	c.
301.	Superintendence	28,390	84	28,482	21
302.	Shop machinery	7,845	18	8,847	70
304.	Power plant machinery	2,670	26	2,197	37
308.	Steam locomotives—repairs	304,652	69	307,517	56
309.	Steam locomotives—depreciation	45,941	16	45,905	57
310.	Steam locomotives—retirements	....		620	00
314.	Freight-train cars—repairs	148,404	86	163,706	08
315.	Freight-train cars—depreciation	20,819	19	20,845	36
316.	Freight-train cars—retirements	653	29	449	70
317.	Passenger-train cars—repairs	116,152	29	111,159	27
318.	Passenger-train cars—depreciation	25,704	24	25,703	77
320.	Motor equipment of cars—repairs	2,194	06	1,579	36
326.	Work equipment—repairs	37,641	02	26,529	04
327.	Work equipment—depreciation	9,570	36	9,569	98
332.	Injuries to persons	841	06	1,266	01
333.	Insurance	6,034	80	6,447	91
334.	Stationery and printing	1,413	99	1,725	73
335.	Other expenses	Cr. 656	88	1,202	70
337.	Maintaining joint equipment at terminals—Cr.	8,621	23	10,110	04
	Total	749,651	18	753,645	28

Traffic

		Nov. 1st, 1930 to Oct. 31st, 1931 $ c.	Nov. 1st, 1929 to Oct. 31st, 1930 $ c.
351.	Superintendence	14,603 11	14,202 47
352.	Outside agencies	1,364 36	4,147 75
353.	Advertising	6,127 26	5,667 44
354.	Traffic associations	1,257 77	1,478 00
356.	Industrial and immigration bureaus	25 00	30 00
358.	Stationery and printing	4,169 02	3,154 94
	Total	27,546 52	28,680 60

Transportation

		Nov. 1st, 1930 to Oct. 31st, 1931 $ c.	Nov. 1st, 1929 to Oct. 31st, 1930 $ c.
371.	Superintendence	29,112 71	27,669 76
372.	Dispatching trains	25,960 35	26,531 50
373.	Station employees	302,490 57	306,029 01
374.	Weighing, inspection and demurrage bureaus	1,163 15	1,110 51
376.	Station supplies and expenses	31,421 82	34,107 04
377.	Yard masters and yard clerks	53,149 45	51,784 12
378.	Yard conductors and brakemen	61,821 54	64,143 88
379.	Yard switch and signal tenders	3,113 52	4,101 51
380.	Yard enginemen	39,989 62	42,057 53
382.	Fuel for yard locomotives	47,158 45	51,886 83
385.	Water for yard locomotives	2,254 15	1,997 91
386.	Lubricants for yard locomotives	379 02	398 50
387.	Other supplies for yard locomotives	357 55	343 33
388.	Engine house expenses—yard	28,401 07	25,867 75
389.	Yard supplies and expenses	1,424 54	1,407 45
390.	Operating joint yards and terminals—Dr	2,547 00	2,542 00
391.	Operating joint yards and terminals—Cr	117,887 81	128,665 70
392.	Train enginemen	232,097 43	238,846 80
394.	Fuel for train locomotives	384,344 44	403,717 08
397.	Water for train locomotives	26,885 29	27,061 96
398.	Lubricants for train locomotives	6,424 32	5,335 58
399.	Other supplies for train locomotives	3,631 27	4,031 43
400.	Enginehouse expenses—train	78,800 26	81,518 58
401.	Trainmen	256,717 07	267,190 09
402.	Train supplies and expenses	75,712 78	84,414 13
405.	Crossing protection	813 01	909 98
410.	Stationery and printing	16,646 51	18,154 05
411.	Other expenses	Cr. 80 11	230 79
413.	Operating joint tracks and facilities—Cr	300 00	300 00
414.	Insurance	1,957 65	2,034 84
415.	Clearing wrecks	1,353 15	3,932 80
416.	Damage to property	418 34	397 95
417.	Damage to live stock on right-of-way	48 44	185 31
418.	Loss and damage—freight	4,799 75	5,198 60
419.	Loss and damage—baggage	16 57	42 08
420.	Injuries to persons	11,225 02	11,142 10
	Total	1,614,367 89	1,667,357 08

Miscellaneous Operations

		Nov. 1st, 1930 to Oct. 31st, 1931 $ c.	Nov. 1st, 1929 to Oct. 31st, 1930 $ c.
441.	Dining and buffet service	23,713 53	34,012 08
442.	Restaurant and news service	54,698 69	55,363 78
447.	Commercial telegraph—maintenance	9,418 50	8,927 53
448.	Commercial telegraph—operation	28,678 12	28,691 95
449.	Commercial telephone—maintenance	14,635 16	10,528 78
450.	Commercial telephone—operation	42,288 35	37,536 11
	Total	173,432 35	175,060 23

General

		Nov. 1st, 1930 to Oct. 31st, 1931		Nov. 1st, 1929 to Oct. 31st, 1930	
		$	c.	$	c.
451.	Salaries and expenses of general officers	61,897	17	60,709	76
452.	Salaries and expenses of clerks and attendants	111,068	85	111,750	71
453.	General office supplies and expenses	4,626	77	5,210	11
454.	Law expenses	4,814	50	4,815	00
455.	Insurance	112	25	114	06
457.	Pensions	12,000	00	12,000	00
458.	Stationery and printing	5,689	42	5,290	86
460.	Other expenses	13,158	34	15,855	53
462.	General joint facilities—Cr	631	33	667	25
	Total	212,735	97	215,078	78

TRAFFIC AND MILEAGE STATISTICS

Passenger Traffic

Total passengers carried earning revenue	422,552
Number of passengers carried one mile	28,843,445
Number of passengers carried one mile per mile of road	65,212
Average distance carried—miles	68.26
Total passenger revenue	838,019.24
Average amount received from each passenger	1.98
Average receipts per passenger per mile (cents)	.02.91
Total passenger train service revenue	1,074,250.34
Passenger service train revenue per mile of road	2,428.78
Passenger service train revenue per train mile	1.47

Freight Traffic

Number of tons carried earning revenue	1,253,323
Number of tons carried earning revenue one mile	245,666,294
Number of tons carried earning revenue one mile per mile of road	555,429
Average distance haul of one ton—miles	196
Total freight revenue	3,457,937 44
Average amount received for each ton	2.76
Average amount received per ton per mile (cents)	.01.41
Freight revenue per mile, of road	7,818 08
Freight train revenue per train mile	4 92

Total Traffic

Operating revenue	4,936,026 05
Operating revenue per mile of road	11,159 91
Operating revenue per train mile	3 77
Operating expenses	3,553,688 07
Operating expenses per mile of road	8,034 56
Operating expenses per train mile	2 71
Net operating revenue	1,382,337 98
Net operating revenue per mile of road	3,125 34

Car Mileage

Average number of passengers carried one mile per car mile	6.8
Average number of passengers carried one mile per train mile	39.5
Average number of passenger cars per train mile	5.8
Mileage of passenger cars	4,217,132
Mileage of loaded freight cars	10,734,999
Mileage of empty freight cars	6,369,268
Average number of freight cars per train mile	25.3
Average number of loaded freight cars per train mile	15.3
Average number of empty freight cars per train mile	9.1
Average number of tons of freight per train mile	349.8
Average number of tons of freight per loaded car mile	22.9
Average miles operated during the year	442.3

Train Mileage

Mileage of revenue passenger trains	607,556
Mileage of revenue mixed trains	122,962
Mileage of revenue freight trains	579,320
Mileage of revenue special trains	694
Total revenue train mileage	1,310 532

FREIGHT TRAFFIC

Company's Material Excluded—November 1st, 1930 to October 31st, 1931

Commodity	Whole Tons
Products of Agriculture:	
Oats	3,942
Barley	60
Other Grain	76
Flour	4,214
Other mill products	16,622
Hay and straw	10,271
Apples (fresh)	2,315
Other fruits (fresh)	3,832
Potatoes	5,615
Other fresh vegetables	4,204
Other agricultural products	645
Products of Animals:	
Horses	1,472
Cattle and calves	1,286
Sheep	7
Hogs	16
Dressed meats (fresh)	1,881
Dressed meats (cured or salted)	23
Other packing house products	3,700
Eggs	247
Butter and cheese	191
Hides and leather	15
Products of Mines:	
Anthracite coal	19,969
Bituminous coal	127,023
Lignite coal	74
Coke	1,917
Other ores and concentrates	12,018
Base bullion and matte	4,574
Clay, gravel, sand, stone (crushed)	20,010
Slate—dimension or block stone	81
Asphaltum	491
Salt	1,166
Products of Forests:	
Logs, posts, poles, cordwood	60,653
Ties	2,805
Pulpwood	179,884
Lumber, timber, box shooks, staves, heading	113,671
Other forest products	1,987
Manufactures and Miscellaneous:	
Refined petroleum and its products	20,675
Sugar	3,826
Iron, Pig and Bloom	42
Rails and fastenings	4,504
Bar and sheet iron—structural iron and iron pipe	16,315
Castings, machinery and boilers	16,546
Brick and artificial stone	6,114
Cement	62,324
Lime and plaster	8,534
Sewer pipe and drain tile	1,189
Agricultural implements and vehicles other than autos	2,531
Automobiles and auto trucks	1,658
Household goods	480
Furniture	268
Liquor beverages	6,859
Fertilizers—all kinds	66
Paper, printed matter, books	287,327
Wood pulp	91,213
Fish (fresh, frozen, cured, etc.)	267
Canned goods (all canned food products other than meat)	4,609
Other manufactures and miscellaneous	48,377
Merchandise	62,642
	1,253,323

STATISTICS

Comparative Passenger and Freight Traffic Statement

	Passengers	Revenue $	c.
Number of passengers carried during year 1905	86,648	108,681	76
“ “ “ “ 1906	359,861	254,759	33
“ “ “ “ 1907	518,678	388,343	03
“ “ “ “ 1908	479,005	366,504	53
“ “ “ “ 1909	580,748	483,110	89
“ “ “ “ 1910	670,913	606,967	91
“ “ “ “ 1911	479,102	653,063	01
“ “ “ “ 1912	497,452	599,681	73
“ “ “ “ 1913	508.055	576,049	37
“ “ “ “ 1914	535,869	544,820	08
“ “ “ “ 1915	480,995	482,349	80
“ “ “ “ 1916	485,759	624,808	12
“ “ “ “ 1917	499,759	655,127	58
“ “ “ “ 1918	436,984	647,162	91
“ “ “ “ 1919	525,714	853,363	52
“ “ “ “ 1920	609,879	1,021,079	95
“ “ “ “ 1921	685,928	1,223,387	14
“ “ “ “ 1922	633,491	1,097,394	03
“ “ “ “ 1923	708,144	1,273,807	69
“ “ “ “ 1924	725,922	1,369,045	61
“ “ “ “ 1925	664,242	1,150,278	18
“ “ “ “ 1926	634,320	1,180,543	65
“ “ “ “ 1927	647,740	1,248,100	25
“ “ “ “ 1928	637,145	1,277,950	61
“ “ “ “ 1929	549,973	1,063,426	10
“ “ “ “ 1930	516,816	997,649	44
“ “ “ “ 1931	422,552	838,019	24
	14,581,694	21,585,475	46

	Tons	Revenue	
Number of tons of freight carried during year 1905	99,192	121,530	46
“ “ “ “ “ 1906	273,749	230,552	63
“ “ “ “ “ 1907	393,589	390,894	29
“ “ “ “ “ 1908	484,444	471,203	41
“ “ “ “ “ 1909	498,645	756,141	66
“ “ “ “ “ 1910	624,820	852,886	46
“ “ “ “ “ 1911	564,120	974,678	33
“ “ “ “ “ 1912	562,734	929,464	66
“ “ “ “ “ 1913	674,942	906,476	16
“ “ “ “ “ 1914	742,366	952,090	35
“ “ “ “ “ 1915	676,938	925,735	37
“ “ “ “ “ 1916	922,618	1,320,569	33
“ “ “ “ “ 1917	960,714	1,459,459	93
“ “ “ “ “ 1918	1,233,510	1,937,054	80
“ “ “ “ “ 1919	1,068,775	2,036,274	38
“ “ “ “ “ 1920	1,361,185	2,728,092	92
“ “ “ “ “ 1921	1,298,400	3,047,925	57
“ “ “ “ “ 1922	1,185,453	2,779,673	11
“ “ “ “ “ 1923	1,550,651	3,431,621	04
“ “ “ “ “ 1924	1,410,725	3,296,211	95
“ “ “ “ “ 1925	1,350,795	3,181,378	01
“ “ “ “ “ 1926	1,355,298	3,146,070	59
“ “ “ “ “ 1927	1,321,110	3,336,174	25
“ “ “ “ “ 1928	1,371,021	3,437,452	26
“ “ “ “ “ 1929	1,376,581	3,308,624	11
“ “ “ “ “ 1930	1,391,655	3,336,628	11
“ “ “ “ “ 1931	1,253,323	3,457,937	44
	26,007,353	52,752,801	58

NIPISSING CENTRAL RAILWAY COMPANY

Mileage Operated at the Close of the Fiscal Year 1931

Electric Lines

	Miles	Total Miles
Owned by Company:		
Main track	4.67	
Sidings	1.78	
		6.45
Leased from T. & N. O. Railway:		
Main track	5.85	
Sidings	1.04	
		6.89
		13.34

Steam Lines

	Miles	Total Miles
Main track, Swastika to Noranda, Que	59.74	
Sidings and yard tracks	9.33	
		69.07
Private sidings under siding agreement	1.91	
Private sidings privately owned	1.02	
		2.93
		72.00

Electric lines	13.34
Steam lines	72.00
Total	85.34

PURCHASING AND STORES DEPARTMENT

Statement of Purchases and Issues, Fiscal Year 1930-1931

	1930		1931	
Stocks	Purchases	Issues	Purchases	Issues
Various stocks	$5,635 05	$6,232 43	$5,551 62	$5,654 66
Total purchases	5,635 05	....	5,551 62	....
Total issues	6,232 43	....	5,654 66	....
	$11,867 48	....	$11,206 28	....

NIPISSING CENTRAL RAILWAY

General Balance Sheet, October 31st, 1931

Assets

Property Owned:		
Cost of road	$4,350,930 82	
Cost of equipment	83,002 63	
		$4,433,933 45
Current Assets:		
Cash	$42,450 92	
Accounts collectible	8,099 26	
Balance due on townsite sales	4,051 92	
Agents and conductors	25,537 83	
Material and supplies	15,382 62	
		95,522 55
Unadjusted Debits:		
Insurance premiums paid in advance		27 10
Other Assets:		
Franchise	$1 00	
Profit and loss—balance	404,915 29	
		404,916 29
		$4,934,399 39

Liabilities

Capital stock		$159,000 00
T. & N.O. Railway advance		4,464,469 65
Current Liabilities		
Audited accounts	$248,123 96	
Traffic balances	62,805 78	
		310,929 74
		$4,934,399 39

Profit and Loss

To balance, October 31st, 1930	$413,964 04
Profit and loss on retired road and equipment	4,242 44
Townsites	166 80
	$418,373 28

Result Operation for Fiscal Year Ended October 31st, 1931		
Steam lines	$23,413 39	
Electric lines—deficit	9,958 75	
		$13,454 64
Unclaimed vouchers		3 35
By balance, October 31st, 1931		404,915 29
		$418,373 28

COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1929 TO OCTOBER 31st, 1931

STEAM LINES

REVENUE	Nov. 1st, 1930 to Oct. 31st, 1931 $ c.	Nov. 1st, 1929 to Oct. 31st, 1930 $ c.
TRANSPORTATION		
101. Freight	164,958 32	150,721 90
102. Passenger	50,079 05	59,469 85
103. Excess baggage	526 87	643 53
106. Mail	1,503 68	1,505 64
109. Milk	60 00	113 20
110. Switching	570 08	598 40
111. Special service train	150 00	150 00
Total	217,848 00	213,202 52
INCIDENTAL		
133. Station, train and boat privileges	7 73	15 90
135. Storage—freight	690 01	574 36
136. Storage—baggage	193 70	158 85
142. Rents of buildings and other property	5,516 89	3,325 45
143. Miscellaneous	410 69	287 00
Total	6,819 02	4,361 56
Total Revenue	224,667 02	217,564 08
EXPENDITURES		
Maintenance of way and structures	68,051 64	63,878 80
Maintenance of equipment	2,607 56	2,862 76
Traffic	96 19	191 39
Transportation	127,286 73	128,378 94
General	219 28	155 10
Transportation for investment—Cr.	69 55	44 60
Total Operating Expenses	198,191 85	195,422 39
BALANCE	26,475 17	22,141 69
OTHER INCOME		
Miscellaneous rents	Dr. 120 00	Dr. 120 00
Taxes	Dr. 3,225 05	Dr. 1,933 99
Miscellaneous income	106 00	97 00
Interest and exchange	177 27	116 01
Total	Dr. 3,061 78	Dr. 1,840 98
NET RESULT	23,413 39	20,300 71

COMPARATIVE STATEMENT OF EARNINGS AND EXPENDITURES AND RESULT OF OPERATION, NOVEMBER 1st, 1929 TO OCTOBER 31st, 1931

ELECTRIC LINES

	RECEIPTS	Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
I.	Revenue from Transportation—	$ c.	$ c.
101.	Passenger revenue	41,774 93	47,106 67
102.	Baggage revenue	679 52	519 89
103.	Parlour, sleeping, dining and special car revenue	30 00	....
108.	Switching revenue	3,828 87	4,540 60
109.	Miscellaneous transportation revenue	....	5 00
	Total	46,313 32	52,172 16
II.	Revenue from Other Railway Operations—		
110.	Station and car privileges	500 00	500 00
113.	Demurrage	60 00	64 00
117.	Rent of buildings and other property	568 00	568 00
	Total	1,128 00	1,132 00
	Total Revenue	47,441 32	53,304 16
	EXPENDITURES		
I.	Way and structures	10,680 25	11,816 90
II.	Equipment	5,533 61	6,306 33
III.	Power	14,608 12	14,898 04
IV.	Conducting transportation	24,546 06	23,237 04
VI.	General and miscellaneous	2,104 18	2,477 57
	Total Operating Expenses	57,472 22	58,735 88
	Balance	Dr. 10,030 90	Dr. 5,431 72
	Other Income		
	Interest	72 15	108 71
	Total	72 15	108 71
	Net Result	Dr. 9,958 75	Dr. 5,323 01

Way and Structures

		Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
		$ c.	$ c.
1.	Superintendence of way and structures	183 00	209 10
2.	Ballast	143 40	143 40
3.	Ties	1,125 54	1,863 17
4.	Rails	542 22	525 72
5.	Rail fastenings and joints	105 17	84 58
6.	Special work	47 88	47 88
8.	Track and roadway labour	4,537 49	4,541 57
9.	Miscellaneous track and roadway expenses	51 54	56 09
10.	Paving	500 00	500 00
11.	Cleaning and sanding track	2 50	....
12.	Removal of snow and ice	1,197 90	1,597 01
15.	Bridges, trestles and culverts	52 23	2 19
16.	Crossings, fences and signs	701 94	282 75
17.	Signal and interlocking apparatus	3 43	....
18.	Telegraph and telephone lines	53 65	99 72
20.	Poles and fixtures	65 65	82 68
22.	Distribution system	1,086 95	1,328 23
24.	Buildings, fixtures and grounds	279 76	452 81
	Total	10,680 25	11,816 90

Equipment

		Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
		$ c.	$ c.
29.	Superintendence of equipment	540 85	545 70
30.	Passenger and combination cars	3,381 06	3,542 90
32.	Service equipment	118 58	104 21
33.	Electric equipment of cars	1,395 58	1,882 14
34.	Locomotives	64 58	217 02
37.	Shop expenses	32 96	14 36
	Total	5,533 61	6,306 33

Power

		Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
		$ c.	$ c.
45.	Superintendence of power	240 00	240 00
48.	Substation equipment	144 73	130 22
57.	Substation employees	2,938 89	2,775 32
59.	Power purchased	11,284 50	11,752 50
	Total	14,608 12	14,898 04

Conducting Transportation

		Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
63.	Superintendence of transportation	1,020 00	1,020 00
64.	Passenger conductors, motormen and trainmen	15,335 65	14,384 65
65.	Freight and express conductors, motormen and trainmen	4,434 93	4,435 40
66.	Miscellaneous car-service employees	4 52	....
67.	Miscellaneous car-service expenses	1,072 13	811 44
69.	Station expenses	391 02	519 29
70.	Carhouse employees	1,790 68	1,632 68
71.	Carhouse expenses	341 47	349 32
72.	Operation of signal and interlocking apparatus	155 66	22 91
78.	Other transportation expenses	....	61 35
	Total	24,546 06	23,237 04

General and Miscellaneous

		Nov. 1st, 1930 to Oct. 31st, 1931	Nov. 1st, 1929 to Oct. 31st, 1930
		$ c.	$ c.
84.	Salaries and expenses of general office clerks	874 10	853 73
85.	General office supplies and expenses	144 07	129 60
86.	Law expenses	......	2 50
92.	Injuries and damages	91 81	188 84
93.	Insurance	326 63	341 68
94.	Stationery and printing	67 57	361 22
97.	Rent of tracks and facilities	600 00	600 00
	Total	2,104 18	2,477 57

Twenty-Sixth Annual Report

OF THE

ONTARIO RAILWAY

AND

MUNICIPAL BOARD

To December 31st, 1931

PRESENTED TO THE LEGISLATIVE ASSEMBLY
BY COMMAND

SESSIONAL PAPER No. 24, 1932

ONTARIO

TORONTO
Printed and Published by the Printer to the King's Most Excellent Majesty
1932

To The Honourable Sir William Mulock,
Acting Lieutenant-Governor of the Province of Ontario, in Council.

May It Please Your Honour:

The undersigned has the honour to transmit herewith the Twenty-sixth Report of The Ontario Railway and Municipal Board for the year ending December 31st, 1931.

Respectfully submitted,

William H. Price,
Attorney-General.

Parliament Buildings,
Toronto.

Parliament Buildings,
Toronto, March 9th, 1932.

DEAR SIR:

RE TWENTY-SIXTH ANNUAL REPORT

I have the honour to send you herewith the Twenty-sixth Annual Report of The Ontario Railway and Municipal Board to December 31st, 1931.

I have the honour to be,

Your obedient servant,
H. C. SMALL,
Secretary.

The Honourable the Attorney-General,
Parliament Buildings,
Toronto.

ORGANIZATION

The Organization of The Ontario Railway and Municipal Board of the Province of Ontario is as follows:

C. R. McKeown, K.C.	*Chairman*
A. B. Ingram	*Vice-Chairman*
J. A. Ellis	*Commissioner*
H. C. Small	*Secretary*
F. Dagger	*Supervisor of Telephone Systems*
J. A. McDonald	*Inspector of Telephone Service*
E. A. Crosland	*Inspector of Street and Radial Railways*
W. B. Boyd	*Electrical Engineer*
E. V. Deverall	*Consulting Engineer*
G. A. Brown	*Tariff Expert*

TWENTY-SIXTH ANNUAL REPORT

OF THE

Ontario Railway and Municipal Board

To December 31st, 1931

In pursuance of Section 56 of "The Railway and Municipal Board Act," The Ontario Railway and Municipal Board beg leave respectfully to submit their Twenty-sixth Annual Report.

SITTINGS OF THE BOARD

The Board held meetings for the transaction of routine business every juridical day throughout the year. The record of the sessions of the Board and an abstract of the proceedings, together with the Judgments or Opinions of the Board, appear in the Appendix.

In this connection it should be stated that about 80 per cent. of the Board's work is not conducted at the formal sessions of the Board shown in the abstract of proceedings above mentioned. This office work of the Board is transacted usually upon written applications and not in the way of formal hearing of parties interested. A classified abstract of the office work of the Board disposed of in the way of formal applications without formally hearing the parties will be found in the Appendix. In addition to this there is the usual office work of considering and replying to enquiries and other routine correspondence. A short reference is hereafter made, under different sub-headings, of the applications dealt with by the Board *ex parte* or without a formal hearing of the parties interested.

APPLICATIONS TO THE BOARD

There were 809 formal applications made to the Board in 1931. Of the formal applications all those in which the parties were ready to go to trial have been heard and disposed of, except in a few cases where adjournments were granted to the parties at the request of Counsel or in order to procure further evidence or to obtain reports from experts in connection with technical matters in question.

Some of the formal applications are still standing for trial, as in the more important matters the parties interested are showing an increasing disposition to take advantage of the opportunities afforded them by the Board's rules for obtaining discovery and production, thus, to some extent, delaying the final dates of the hearing of the applications, but in reality facilitating the final disposition at the hearings of all the matters in question between the parties.

LAW STAMPS

The amount of revenue collected by the Board in Law Stamps in the year 1931 was $8,739.50. In 1925 the amount collected was $7,262.00; in 1926,

$5,542.50; in 1927, $6,688.60; in 1928, $6,167.60; in 1929, $6,935.50, and in 1930, $10,859.50.

PROVINCIAL RAILWAYS

An alphabetical list (under the names of the railway systems affected) of Applications to the Board during 1931, affecting Provincial Railways, is contained in the Appendix to this Report.

Extensions of and improvements to Provincial Railways during 1931, as reported to the Board, will be found in the Appendix (arranged alphabetically) under the names of the several systems reporting.

A tabulation (arranged alphabetically) of railways under the Board's jurisdiction will be found in the Appendix. This tabulation shows, for each railway, the lengths of first and second main track, total main track, sidings and turnouts, the total computed as single track, the length under construction, the number of power houses and whether steam or water and whence power obtained.

There will be found in the Appendix an analytical tabulated summary of Accident Reports received by the Board for 1931, also a continuation (up to and inclusive of 1931) of the Board's index to Railway Legislation.

The Appendix also contains tables showing provincial aid to railways since Confederation, and an index to Legislation, Dominion and Provincial, since 1867, affecting railways in Ontario.

REPORTS TO THE HOUSE

In pursuance of Rule 72 of the House, the Board made enquiry into and reported upon fourteen Financial Bills which were introduced last session into the Legislature. A reference to these Bills so reported will be found in the Appendix.

ANNEXATIONS OF TERRITORY

There were six applications made in 1931 by urban municipalities for annexation of additional territory thereto. An alphabetical list of these annexation applications is contained in the Appendix.

VALIDATION OF MUNICIPAL DEBENTURES

(Section 304 of "The Municipal Act")

There were 136 applications to the Board under the above legislation in 1931, involving debentures of a total value of $4,801,774.42. Acting under the powers conferred by such legislation the Board was able to grant relief in nearly all of these cases, included in which were seventy-three by-laws affected by irregularities which would otherwise have probably required special Acts of the Legislature to make the debentures thereunder valid and saleable.

Municipalities are showing an increasing disposition to have their by-laws and debentures validated under said Section 304, even in cases where no irregularities occur requiring the curative powers of the Board thereunder, as they have found that such validation facilitaties the marketing of their debentures.

The amount of debentures validated by the Board during 1925 was $4,544,784.49; in 1926, $2,689,309.24; in 1927, $4,770,868.50; in 1928,

$4,726,726.17; in 1929, $5,762,002.06; and in 1930, $11,339,944.85. An alphabetical list of these applications filed in 1931 is given in the Appendix, and will be found indexed under the word "Validation."

UNEMPLOYMENT RELIEF WORKS

Since "The Unemployment Relief Act (Ontario), 1931," came into force on the 2nd day of April, 1931, the Board considered, under subsection (2) of Section 4 of the Act, seventy-five applications, involving debenture issues amounting to $1,383,498.93. Fifty-eight of these applications were granted, covering debentures totalling $1,138,527.04, which were validated by the Board under the above mentioned legislation.

ARBITRATIONS

In 1931 the Board officiated as Arbitrators in respect of six references which were made to it under "The Highway Improvement Act."

ASSESSMENT APPEALS

There were twenty-five assessment appeals to the Board during the year 1931. The assessed value of the property affected by these appeals was $8,419,760.00.

RAILWAY RETURNS

Annual reports to December 31st, 1931, by railway companies under the Board's jurisdiction were received, of which a summarized tabulation has been prepared for publication herein, and will be found in the Appendix. The Board has no means of auditing the reports as received, and does not therefore represent or guarantee that the figures taken therefrom are correct or accurate. Heretofore these reports were copied and tabulated as received and published in the Board's Annual Report; this practice was discontinued for the first time in 1924.

ACCIDENTS

A tabulated summary of Accident Reports received by the Board from provincial railways during the year 1931 appears in the Appendix, and shows that twenty persons were killed and 912 injured during the year.

In 1925, seventeen persons were killed and 666 injured; in 1926, thirty persons were killed and 710 injured; in 1927, twenty persons were killed and 761 injured; in 1928, thirty-one persons were killed and 848 injured; in 1929, thirty persons were killed and 1,017 injured; and in 1930, twenty-two persons were killed and 899 injured.

ONTARIO SAFETY LEAGUE

Early in 1913 the members of the Board called together representatives of various organizations which were specially interested in the question of street traffic. Representatives were sent from the Board of Trade, Canadian Manufacturers' Association, City Council, Ontario Motor League, Board of Education, Separate School Board, Toronto Railway Company, Toronto District Labour

Council, Boy Scouts, Team Owners' Association, and many others. Every delegate realized that the question was one that dealt with actual dangers and concerted action must be taken. After numerous conferences the Ontario Safety League was organized on the 17th September, 1913. The League has since done much good and vitally useful work towards lessening the dangers of travel, especially on congested highways.

In addition to its Provincial organization the League has become National in its organizations and operations. See summary of the League's 1931 campaign which appears in the Appendix.

PLANS

(Land Subdivisions)

Under "The Planning and Development Act" (Chapter 236, R.S.O. 1927), "The Land Titles Act" (Chapter 158, R.S.O. 1927), Section 110, and "The Registry Act" (Chapter 155, R.S.O. 1927), Section 80, subsections 14 and 18, the Board considered during the year thirty-three applications for approval of plans, deeds of conveyance, etc. An alphabetical list of the owners of property in question in these applications will be found in the Appendix.

In 1925 fifty-nine such applications were considered, forty-four in 1926, thirty-five in 1927, thirty-eight in 1928, fifty-three in 1929 and forty-seven in 1930.

FORMS

The Board has (for distribution to parties interested) the following forms and specifications, namely:

(1) The Board's Rules of Practice and Procedure and Practice Forms.

(2) Regulations, Specifications and Forms respecting Railways.

(3) Standard Specifications for Bridges, Viaducts, Trestles or other structures.

(4) Pamphlet containing copy of "The Telephone Act," and with information regarding Provincial Telephone Systems, and including

(*a*) Specifications for construction and equipment of telephone systems;

(*b*) Form of By-law providing for the establishment of a telephone system under Part II of "The Telephone Act";

(*c*) Form of By-law providing for the issue of debentures to pay for the cost of establishing a telephone system under Part II of "The Telephone Act";

(*d*) Form of By-law to regulate the management and operation of a telephone system established under Part II of "The Telephone Act";

(*e*) Form of Annual Report to be furnished to the subscribers to a telephone system established under Part II of "The Telephone Act";

(*f*) Sample form of Annual Report and Balance Sheet for telephone companies;

(*g*) Form of Account for use by telephone companies using the "Discount System of Collections";

(*h*) Form of Municipal Debentures—Instalment Plan;

(*i*) Form of Constitution and By-laws for a Telephone Company.

(5) Forms of Petition praying for the establishment or extension of a telephone system under Part II of "The Telephone Act."

(6) Forms of By-laws granting to a telephone company the right to use the highways of a township.

(7) Regulations and specifications for telephone or telegraph wires crossing railway.

(8) Form for Return by Municipality operating a Telephone System.

(9) Form for Return by Company, etc., operating a Telephone System.

(10) Form for Tariff of Tolls for Telephone System.

(11) Forms under "The Planning and Development Act," with directions for guidance of Applicants thereunder.

(12) Forms for submission of a By-law or question to a poll, under "The Municipal Act."

(13) Form for Money By-law.

(14) Forms of affidavits in support of applications under Section 304 of "The Municipal Act."

(15) Preliminary Resolution under Section 8 of "The Local Improvement Act."

(16) Forms for Annual Reports by Railway Systems.

(17) Forms for Reports as to Examination of Motormen.

(18) Forms for Reports of Accidents, by Railway Systems.

(19) Regulation as to height of car steps.

(20) Directions for guidance of applicants under subsection (2) of Section 399 of "The Municipal Act."

(21) Tariff of the Board's Fees.

(22) Memorandum respecting approval of By-laws under "The Unemployment Relief Act (Ontario), 1931."

Extension of Municipal Utilities Approved under Subsection (2) of Section 399 of "The Municipal Act"

An alphabetical tabulation (under the names of the municipalities) of extensions to public utilities made by municipalities and approved by the Board under the above subsection (2) will be found in the Appendix, and is indexed under the word "Approval."

The total of the debenture issue under these By-laws approved in 1931 amounts to $3,264,899.06. In 1925 the total debenture issue approved amounted to $1,347,941.30; in 1926, $2,378,030.70; in 1927, $3,588,709.73; in 1928, $1,820,244.87; in 1929, $2,425,528.34; and $3,884,176.37 in 1930.

Miscellaneous Matters Under the Board's Jurisdiction

A classified analysis of miscellaneous matters dealt with under the jurisdiction of the Board will be found in the Appendix. These include Annexations under "The Municipal Act"; Arbitrations; Assessment Appeals, under Section 83 of "The Assessment Act"; Financial and other Bills reported to the House, under Rule 72; Bridges, relief from reconstruction of, under Section 469 (9) of "The Municipal Act"; Bridges, approval of By-laws respecting, under Section 297 (2) (*e*) of "The Municipal Act"; Detachment of Farm Lands from Town or Village, under Section 21 of "The Municipal Act"; Extension of Debenture Issue Period, under Section 296 (11) and (12) of "The Municipal Act"; Extension of Time to pass By-laws, under Section 288 (5) of "The Municipal Act"; Fire Halls, Fire Engines, etc., approval of expenditure for, under Section 27 of "The Municipal Amendment Act" (Chapter 50); Franchises, approval of, under Section 4 of "The (Municipal) Franchises Act"; Highways (Narrow), approved under Section

490 (2) of "The Municipal Act"; Highways (Suburban), establishing, closing, etc., under Section 12 of "The Planning and Development Act"; Interest Increase and Interest Decrease By-laws, approved under Section 300 of "The Municipal Act"; Legislation (Special), approval of By-laws under; License Fee, approval of By-laws for, under Section 411 (9) of "The Municipal Act"; Local Improvements, Objections against, under Section 6 of "The Local Improvement Act"; Local Improvements, Petitions against, under Section 8 of "The Local Improvement Act"; Local Improvements, abandonment of part of work, under Section 18 of "The Local Improvement Act"; Apportionment of Cost of Local Improvement Work, approval of By-laws under Section 26 (3) of "The Local Improvement Act"; "The Railway and Municipal Board Act" (Chapter 225, R.S.O. 1927), applications under; Parks, setting aside part of for athletic purposes, under Section 12 of "The Public Parks Act" (Chapter 248, R.S.O. 1927); Restrictions as to use of land or buildings, etc., approval of, under Section 398 of "The Municipal Act"; Sewage and Sewage Disposal Works, applications for directions and compensation in respect of, under Section 95 of "The Public Health Act"; Sinking Funds, approval of By-laws for investment of, under Section 317 of "The Municipal Act"; Tax Rate, approval of further debt, etc., under Section 306 (2) of "The Municipal Act"; Unemployment Relief Works, approval of By-laws for, under Section 4 (2) of "The Unemployment Relief Act (Ontario), 1931"; Police Villages, formation of, under Sections 514 (3) and 517 of "The Municipal Act"; War Memorials and Patriotic Objects, approval of, under Section 396 (30) of "The Municipal Act"; Wards, Division of Cities, etc., into, under Section 44 of "The Municipal Act"; Waterworks Area and Construction (special legislation); and Works ordered by Dominion and Ontario Railway Boards, approval of By-laws for, under Section 297 (2) (*f*) of "The Municipal Act."

PUBLIC UTILITIES

We have the honour to submit analyses of Reports for the year ending December 31st, 1931, upon railway operation in the Province of Ontario under the jurisdiction of the Board.

We submit also tabulated analytical statements prepared from the Annual Reports received from Provincial Railways, and showing the financial position and the operating details of such railways for the year 1931.

H. C. SMALL,
Secretary.

REPORT OF THE SUPERVISOR OF TELEPHONE SYSTEMS FOR THE YEAR 1931

The following applications under the provisions of "The Telephone Act" were dealt with by the Board in 1931:

Under Section 7: For authority to issue debentures for extensions and improvements to telephone systems under Part I	1
Under Section 19: For the approval of municipal by-laws providing for the establishment of telephone systems	1
Under Section 24: For the approval of municipal debenture by-laws to meet the cost of establishing or extending telephone systems	11

Under Section 25: For an extension of the period within which municipal debenture by-laws respecting telephone systems may be passed	3
Under Section 26: For an extension of the period for the repayment of debentures for establishment of telephone system	1
Under Section 27: For authority to pass municipal debenture by-laws to meet the cost of reconstructing, replacing or altering telephone systems	1
Under Section 31: For the approval of the purchase of an existing telephone system by a municipality or any portion thereof	7
Under Section 45: For an order determining the validity of a special rate levied under Part II	1
Under Section 73: For an order fixing the remuneration of municipal officials for services rendered under Part II	1
Under Section 80: For the approval of municipal by-laws granting the right to erect poles and wires upon the highways	22
Under Section 84: For the right to erect poles and wires upon the highways in unorganized territory	3
Under Section 88: For the approval of the by-laws of a telephone company	8
Under Section 90: For an order requiring the reconstruction of a telephone system to ensure the provision of an efficient service	1
Under Section 93: For the consent to erection of poles and wires parallel with existing lines	4
Under Section 94: For an order preventing the duplication of pole leads upon the same highway	2
Under Section 95: For an order fixing the terms and conditions for furnishing service	1
Under Section 97: For the approval of agreements providing for interchange of service	28
Under Section 98: For an order fixing terms and conditions for interchange of service	3
Under Section 102: For the approval of the sale of telephone systems	3
Under Section 103: For authority to increase the charges for telephone service	4
Under Section 105: For authority to furnish free service	1
Under Section 110: For authority to expend a portion of the moneys set aside for depreciation upon new construction or extensions or in the purchase of securities	4
Total number of applications	111

The Board or its Supervisor of Telephone Systems during the year visited fifty-eight different points in the Province in connection with the foregoing applications.

The continued policy of the Board in endeavouring to secure an amicable settlement of matters in dispute between the applicant and respondent has, with the assistance of the Board's Supervisor, proved successful in the majority of such cases.

In addition to the applications and complaints referred to, a vast amount of correspondence relating to telephone matters has been dealt with by the Board's Supervisor, through the medium of which much information and assistance has been given to municipalities, companies and other persons interested, and many difficulties which might otherwise have necessitated a formal application and public hearing have been satisfactorily adjusted.

A number of points were visited by the Board's Inspector of Telephone Service during the year for the purpose of investigating complaints made by subscribers, and upon his report and recommendation the Board has been enabled to secure considerable improvements in the telephone service furnished by the systems coming under his observation.

The following changes in the ownership of telephone systems were made during the year:

The Ingersoll Telephone Company, Limited, purchased from The Bell Telephone Company of Canada the local and rural system at Embro comprising 427 telephones.

George Poff purchased from W. N. Gilroy and C. S. Rollins the Coe Hill Telephone System comprising twenty-four telephones.

The Municipality of the Township of St. Joseph purchased from the St. Joseph Island Telephone Company, Limited, its system on St. Joseph Island in the District of Algoma comprising 105 telephones.

The Municipality of Emily purchased from the Omemee Telephone Company, Limited, its system connecting at Omemee comprising ninety-two telephones, which will now be operated as a part of The Emily Municipal Telephone System.

New systems were established as follows:

By the Municipality of the Townships of Medora and Wood in the District of Muskoka, to be known as "The Medora and Wood Municipal Telephone System."

By the Municipality of St. Joseph in the District of Algoma, to be known as "The St. Joseph Municipal Telephone System."

The number of telephone systems within the jurisdiction of Ontario of which the Board has record is 609 operating approximately 113,500 telephones and representing an investment of about $10,400,000.

There are eleven systems owned and operated by municipalities under the provisions of Part I of the Act, viz.: the Cities of Fort William and Port Arthur, the Towns of Cochrane, Dryden, Fort Frances, Kenora, Keewatin, and Rainy River, and the Townships of Alberton, Caledon and Hilliard.

One hundred and twenty systems are now established and operating under Part II of the Act, and furnishing service in two hundred and seventy-four towns, villages and townships.

In addition to the before-mentioned systems the Forestry Branch of the Department of Lands and Forests is operating an extensive system in connection with its work of fire prevention. This system comprises 1,245 miles of pole lead, 1,343 miles of tree attachments and 4,439 miles of wire, the total investment being approximately $275,000.

Detailed statistics and other information relative to these systems will be found in the appendix to this report, entitled "Telephone Systems, 1932."

FRANCIS DAGGER,
Supervisor of Telephone Systems.

STATEMENT AS TO THE ORIGIN AND ACTIVITIES OF THE ONTARIO RAILWAY AND MUNICIPAL BOARD

The Ontario Railway and Municipal Board was organized in 1906, when the then Legislature saw fit to appoint a Commission with certain powers to deal with municipal affairs, and thereby give assistance to several municipalities in the handling of their own municipal matters, relieving the Legislature from the duty of going closely into many complicated Acts, and establishing a permanent body that could also be appealed to when matters municipal came up for consideration.

The late Sir James P. Whitney, then Prime Minister of the Province of Ontario, felt that in the interest of securing a uniformity in the issue of municipal debentures, and for the purpose of giving assistance to the many outlying municipalities practically free of cost, the Ontario Railway and Municipal Board should be formed, having as its first officers the late James Leitch, K.C., as Chairman; Mr. A. B. Ingram, Vice-Chairman; Mr. H. N. Kittson, Commissioner, and Mr. H. C. Small as Secretary. The Vice-Chairman, Mr. A. B. Ingram, and Mr. Small, the Secretary, are still members of the Board, having served in their respective capacities continuously since its organization. Mr. Leitch, the first Chairman of the Board, was, in the year 1912, transferred to a position on the Supreme Court Bench, and Mr. D. M. McIntrye, K.C., of Kingston, was appointed in his stead as Chairman of the Board, which position he filled, to the entire satisfaction of the Province of Ontario, until his retirement in January, 1927, when the present Chairman, Mr. C. R. McKeown, K.C., was appointed. In the year 1918, Mr. Kittson retired as member of the Board, and his place was taken by Mr. J. A. Ellis, previously the member in the Ontario Legislature for the City of Ottawa, and at one time mayor of that Capital City. Mr. Ellis is still a member of the Board.

All railways taking their charters from the Province of Ontario come under the jurisdiction of the Board, and although the large steam railways—the Canadian Pacific Railway and the Canadian National Railway—have absorbed many of the smaller lines, and thereby brought them under the jurisdiction of the Board of Railway Commissioners for Canada, this Board, during 1930, considered and disposed of between forty and fifty applications from railways in Ontario coming strictly under its jurisdiction, and for the past year, 1931, the applications from railways coming under the Board's jurisdiction amounted to fifty-two.

The establishment of rural telephones throughout the Province was considered by the Government as of great advantage to the farming community, and the Railway Board was given charge of the organization of municipal and private telephone systems all through the Province of Ontario. There is now under the jurisdiction of the Board some 608 telephone systems, acting quite independently of The Bell Telephone Company, but all having long distance connection with the Bell Company, so that at the present time the Province of Ontario is largely covered by a network of rural telephone systems owned and managed by the farmers themselves, and giving to them, almost at cost, that telephone connection with all parts of the world which before the establishment of these systems was denied them. Under the careful supervision of Mr. Dagger, as Telephone Supervisor of Ontario, a policy has been carried out which, as much as possible, prevents the duplication of these systems, and brings each particular system up to the standard required by the Bell System in Ontario.

The work of the Board has been so enlarged that it is now charged with many different matters, including annexations, arbitrations, assessment appeals, financial Bills, municipal debentures and many other matters more fully set out at pages 11 and 12 of the Board's Annual Report for the year 1930, to which has recently been added the approval of debentures issued for Unemployment Relief Works.

In 1930 the number of debenture by-laws coming before the Board for approval amounted to 151, and the total amount involved in such debentures reached $11,339,944.85. In 1931, possibly by reason of the curtailment in municipal expenditure, the total number of debenture by-laws coming before the Board for approval amounted to 136, and the amount involved reached the sum of $4,801,774.42. In addition to the above the Board approved of debentures for Unemployment Relief Works in 1931, under seventy-five applications, amounting to $1,383,498.93.

The Board is sitting every legal day, and, in addition to the many Hearings held in its Chambers in the City of Toronto, journeys over the entire Province to dispose of matters properly brought before it, thereby reducing to a minimum the expense upon the different municipalities in the disposition of matters which otherwise might require adjudication before the Supreme Court, or special legislation on the part of the Legislature of the Province.

The Board issues its report annually and a concise statement of its activities will be found therein.

(Sgd.) C. R. McKeown,
Chairman.

APPENDIX

PROCEDURE FILE 8255a

In the matter of the application of the Toronto Transportation Commission, pursuant to R.S.O. 1927, Chapter 224, Section 257, for the approval by the Board of the operation by the said Commission of One-Man Cars of an approved type upon certain routes of its railway.

November 12th. Application and material filed.

November 12th. Order.

November 12th, 1931.

ORDER

Upon the application of the Toronto Transportation Commission:

This Board doth order that the Order of the Board, dated the 25th day of March, 1924, in this matter, be amended by striking out sub-paragraph 3 of paragraph 2 and substituting therefor the following:

Parliament Route—From Viaduct Loop, south on Parliament Street to Queen Street, west on Queen Street to Church Street, south on Church Street to Richmond Street, west on Richmond Street to Victoria Street, north on Victoria Street to Queen Street, east on Queen Street to Parliament Street and north on Parliament Street to the Viaduct Loop.

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-1612

In the matter of the petition of Albert Horton and others under Section 8 of "The Local Improvement Act" against the proposed extension by the City of Toronto of concrete sidewalks, concrete curbs, asphalt pavement and sewers on the north and south sides of Bloor Street between Sherbourne Street and Parliament Street in the City of Toronto.

December 29th, 1930. Judgment delivered.

April 27th, 1931. Draft Order filed.

May 12th, 1931. Notice of Motion to vary Board's Judgment herein returnable on May 19th, 1931, filed.

May 19th, 1931. Hearing *re* Notice of Motion, 10.30 a.m.; 11.25 to 11.50 a.m. Motion heard and dismissed. (See Reporter's notes.)

June 12th, 1931. Order, as settled, issued.

OPINION OF THE BOARD

The City of Toronto having passed a by-law under "The Local Improvement Act" to construct certain works on Bloor Street between Parliament and Sherbourne Streets, the assessed owners of property to be charged with a portion of the cost thereof, petitioned against the said work to the Ontario Railway and Municipal Board.

The matter came up for Hearing at the Board's Chambers on the 4th day of April, 1928.

C. M. Colquhoun, Esq., K.C., and W. G. Angus, Esq.,
Counsel for the City of Toronto.
G. W. Mason, Esq.,
Counsel for Albert Horton and others.
H. W. Mickle, Esq., K.C.,
Counsel for St. Simons Church Trustees, and
R. C. Harris, Esq.,
Commissioner of Works for the City of Toronto,
appearing.

The by-law in question might be said to consist of four different works:

1. The sewer on Bloor Street
2. The concrete curb on the north side of Bloor Street
3. A sidewalk from 121 feet from the east line of Sherbourne Street to the westerly line of Glen Road.
4. The pavement between the curbs.

As to the three first divisions above mentioned, the Board is pleased to approve the by-law as it now stands.

As to the construction of the pavement there was much evidence given and a lengthy argument by those supporting both sides of the question. The pavement is said to be 45 feet 9 inches from curb to curb over and above that portion thereof referred to as the track allowance and for which the City and the Toronto Transportation Commission pays in full. The estimated cost of this 45 feet 9 inches of pavement from Sherbourne Street to Parliament Street is $52,037.00. Of this amount $16,456.00 is chargeable by Statute against the City of Toronto as being flankages, intersections and so forth and the amount specially chargeable against the adjoining properties is $35,581.00.

The property to be assessed in connection with this latter figure comprises that property on the north side of Bloor Street now owned by the City of Toronto and the property on the south side of Bloor Street owned by the Trustees of St. Simons Church and a number of private individuals.

The property owners facing on both Howard Street and Bloor Street are in the fortunate position of having a property which may be used on either side whichever prove most beneficial from a financial standpoint and they are also in the unfortunate position of requiring to pay for a Local Improvement as affecting both ends of their properties. The Board is of the opinion that the owners of the property facing on Howard Street will make but little use of the pavement on Bloor Street and that it will have very little effect on the valuation of their property unless some very material change in these particular lands takes place and for this reason the Board is of the opinion that it is rather a hardship upon the owners of the property lying between Bloor Street and Howard Street to ask them to pay for a Local Improvement on Howard Street which has been done and for a Local Improvement pavement on Bloor Street to a width of 45 feet 9 inches.

According to the evidence there are a number of streets in the City of Toronto purely residential and which are now laid out to a width of 28 feet and the Board is of the opinion that if the properties bordering on the work about to be constructed are charged on the basis of a 30-foot pavement instead of a pavement of 45 feet 9 inches, the City itself taking care of the additional 15 feet 9 inches by reason of the fact that such a wide street is required not for the benefit of the properties adjoining but for the large general traffic on this particular highway, that a fair and just adjudication of this difficulty may be arrived at.

This Board would therefore submit to the Corporation of the City of Toronto that in proceeding with the work in question the charge made against the properties adjoining should be based upon a pavement of 30 feet rather than a pavement of 45 feet 9 inches over and above that referred to as a track allowance.

(Sgd.) C. R. McKeown,
Chairman.

Dated at Toronto,
the 24th day of December, A.D. 1930.

April 27th, 1931.

ORDER

Upon the petition of Albert Horton and others, under Section 8 of "The Local Improvement Act" to this Board for relief against certain local improvement works which the Corporation proposes to undertake on the portion of Bloor Street between Sherbourne Street and Parliament Street, and the said petition having come on for Hearing before this Board on April 4th, 1928, in the presence of Counsel for the petitioners, St. Simons Church Trustees and the City of Toronto, and upon hearing the evidence adduced and what was alleged by Counsel for all parties and the material filed:

1. The Board orders, under and in pursuance of Section 8 of "The Local Improvement Act," that in respect to the construction of an asphalt pavement on Bloor Street from Sherbourne Street to the east street line of Parliament Street produced, there shall be included in the Corporation's portion of the cost so much of the cost as is incurred by reason of the work having a greater width (exclusive of the width of the railway track allowance) than 30 feet and upon this basis the said work is hereby confirmed and approved.

2. The Board further orders, under and in pursuance of Section 8 of "The Local Improvement Act," that save as aforesaid the petition of the said Albert Horton and others is hereby dismissed.

3. The Board further orders that in all other respects the said petition is dismissed and there shall be no costs of this application except the Board's tariff fee for Law Stamps herein which shall be paid by the City and may be added to the cost of the work.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

PROCEDURE FILE A-1819

Application by the City of Sarnia, under Section 398 of "The Municipal Act," for approval of its Zoning By-law No. 1754.

June 10th. Amending By-law 1918 filed.

July 17th. Hearing continued, pursuant to adjournment, 1 to 3 p.m., Council Chamber, Sarnia. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O. 1927.)

Report. "There being no opposition I recommend that the application be granted."

(Sgd.) J. A. Ellis,
Commissioner.

July 22nd. Report adopted.
July 22nd. Order.

July 22nd, 1931.

ORDER

Upon the application of the said Corporation, and upon reading the copy of the said by-law and the other material filed, and the Board having, pursuant to appointment, at the Council Chamber, in the City of Sarnia, on the 12th day of September, 1928, heard Counsel for the Applicant, and others in support and in opposition to the said by-law, and proof of service of the notice of the said Hearing having been filed, and the Board having granted the said application subject to certain amendments thereto, and certified copy of amending By-law No. 1918 having been duly filed with the Board on the 10th day of June, 1931, and this matter having come on for Hearing again before the Board on the 17th day of July, 1931, before Mr. Commissioner Ellis (duly authorized under Section 8, Chapter 225, R.S.O. 1927), at the Council Chamber, in the City of Sarnia, and proof of service of the notice of the further Hearing, as directed by the Board, being filed, and no one appearing in opposition to the approval of the By-law as amended, and Mr. Commissioner Ellis having reported to the Board in favour of the granting of the application, which Report has been adopted as the basis of this Order;

The Board orders, under and in pursuance of the provisions of subsection (*2b*) of Section 398 of "The Municipal Act," that the said By-law No. 1754, intituled "By-law No. 1754, A By-law restricting the use of land and the erection and use of buildings on land situate within the following defined areas," as amended by the said By-law No. 1918, intituled "By-law No. 1918, A By-law to amend By-law No. 1754 of the City of Sarnia, being a By-law restricting the use of buildings on land situated within the defined areas in the City of Sarnia," be and the same is hereby approved.

(Sgd.) A. B. INGRAM,
(Seal) *Vice-Chairman.*

PROCEDURE FILE A-2300

Application by the City of Windsor, under Section 398 of "The Municipal Act," for approval of its By-law No. 3928, regulating the height and bulk of buildings to be hereafter erected abutting on Ouellette Street, in the said City

June 26th. Draft Order filed.
June 26th. Order issued.

18th June, 1929.

ORDER

Upon the application of the said Corporation, and upon reading the Statutory Declaration of Martha A. Dickinson, Clerk of the said City, the copy of the said by-law and the other material filed, and upon hearing Counsel for the Corporation and for others represented at the Hearing;

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law 3928, intituled "By-law No. 3928, A By-law of the City of Windsor regulating the height and bulk of buildings to be hereafter erected abutting on Ouellette Street in the City of Windsor and within the area hereinafter defined," be and the same is hereby approved.

(Seal) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-2487

BETWEEN:

The Corporation of the Township of Tisdale,
Appellant,
—and—

The Hollinger Consolidated Gold Mines, Limited,
Respondent.

(Assessment Appeal)

January 12th. Minutes and Form of Order Settled: 11 to 11.25 a.m., at Board's Chambers. (Chairman authorized under Section 8, Chapter 225, R.S.O. 1927.)

January 14th. Approved draft Order filed.

January 14th. Order issued.

June 15th. Appeal dismissed by Appellate Division (31 O.L.R., 640) (40, O.W.N., 368).

28th October, 1930.

ORDER

BETWEEN:

Hollinger Consolidated Gold Mines, Limited,
Appellants,
—and—

The Municipal Corporation of the Township of Tisdale,
Respondent,

AND BETWEEN:

The Municipal Corporation of the Township of Tisdale,
Appellant,
—and—

Hollinger Consolidated Gold Mines, Limited,
Respondents.

Upon motion made unto this Board on the 8th and 9th days of October, 1930, by Counsel on behalf of the above-named Appellants, Hollinger Consolidated Gold Mines, Limited, from the judgment or decision of His Honour Judge Caron, Judge of the District Court of the District of Temiskaming, dismissing the appeals of the said Appellants from the Orders of the Court of Revision of the Township of Tisdale, which confirmed the assessment made by the assessor of the Township of Tisdale in respect of the following items:

(1) The assessment of $4,400 against the mine change house ($2,900) and boiler house and heating system ($1,500) on the Schumacher Veteran claim.

(2) The assessment of $14,054 in respect of the electric railway system ($6,726.00) and powder magazine and heating system ($7,278.00) and telephone system ($50).

(3) The assessment of $147,614 in respect of the buildings, machinery and equipment in connection with the gravel conveyer system.

And upon further motion made by Counsel for the Appellants, the Municipal Corporation of the Township of Tisdale, at the time and place aforesaid from the judgment or decision of the said Judge allowing an appeal from the said Court of Revision confirming the assessment made by the said assessor of $34,430 in respect of the buildings, machinery and equipment in connection with the slimes disposal system of Hollinger Consolidated Gold Mines, Limited.

And upon hearing the evidence adduced by the parties and what was alleged by Counsel aforesaid and upon reading the proceedings herein and judgment upon the motions having been reserved until the 28th day of October, 1930;

This Board doth order as follows:

(1) The Appeal of the Appellants, Hollinger Consolidated Gold Mines, Limited, is allowed in respect of the following items appealed against, namely:

(*a*) The assessment of $2,900 against the mine change house on the Schumacher Veteran claim.

(*b*) The assessment of the powder magazine and heating system amounting to $7,278.

(*c*) The assessment of $140,389 in respect of the buildings, machinery and equipment in connection with the gravel conveyer system, which amount is arrived at by deducting the respective sums of $6,770 as the assessment of three dwellings and $455 in respect of the gravel-pit change house from the total assessment of $147,614.

(2) And this Board doth further order that the appeal of the............ Appellants, Hollinger Consolidated Gold Mines, Limited, in respect of the other items appealed against be, and the same is hereby dismissed.

(3) And this Board doth further order that the appeal of the Appellants, the Municipal Corporation of the Township of Tisdale, in respect of the assessment of $34,430 in connection with the slimes disposal system of the Respondents, Hollinger Consolidated Gold Mines, Limited, be and the same is hereby dismissed.

(4) And this Court doth further order that the Assessment Rolls of the said Municipal Corporation of the Township of Tisdale for the year 1929 be amended in accordance with the terms of this Order and as so amended do constitute the basis of the assessment for the year 1929 in respect of the items dealt with by this Order, of said Appellants, Hollinger Consolidated Gold Mines, Limited.

(5) This Court doth further order that there shall be no costs in connection with either of said appeals except that the sum of $20.00 for Law Stamp in connection with this Order be paid by the Respondents, the Municipal Corporation of the Township of Tisdale.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

PROCEDURE FILE A-2487a

BETWEEN:

The Hollinger Consolidated Gold Mines, Limited,
Appellant,

—and—

The Corporation of the Township of Tisdale,
Respondent.

(Assessment Appeal.)
(Cross Appeal.)

January 12th. Minutes and Form of Order Settled: 11 to 11.25 A.M., at Board's Chambers. (Chairman authorized under section 8, Chapter 225, R.S.O. 1927).

January 14th. Approved draft Order filed.

January 14th. Order issued. (See A-2487.)

June 15th. Appeal allowed by Appellate Division—(31, L.R., 640) (40, O.W.N., 368).

PROCEDURE FILE A-2809

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12604, prohibiting the use of land or the erection or use of buildings, for any other purpose than that of a detached private residence or a single detached duplex on land abutting on certain highways in the "Oriole Parkway District."

February 17th. Hearing continued, 10.30 to 10.40 A.M. Adjourned to 19th March, 1931, at 10.30 A.M., at the Board's Chambers.

March 19th. Hearing continued, 10.30 A.M.: 10.45 to 10.55 A.M., At request of Counsel adjourned to 14th April, at 10.30 A.M., at Board's Chambers.

April 14th. Hearing continued, 10.30 to 10.45 A.M. At request of Counsel adjourned to 10th May, at 10.30 A.M., at the Board's Chambers.

May 8th. Copy of By-law 13168, amending By-law 12604, filed.

May 19th. Hearing continued, 10.30–11.05 A.M. Adjourned (as to Oriole Parkway and Chaplin Estate property) to 9th June, at 10.30 A.M., at Board's Chambers. City to give Notice (under Section 398 of "The Municipal Act") to Oriole Parkway owners.

June 9th. Hearing continued, 10.30 A.M.: 11 A.M. to 12.45 P.M. Hearing concluded. Application granted. Applicant's Solicitor to draft Order approving By-law 12604 as amended.

June 24th. Draft Order filed.

June 24th. Order issued.

June 9th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval pursuant to Section 398, Subsection 2 (b) of "The Municipal Act" being R.S.O. 1927, Chapter 233, having come on by appointment for hearing before the Board on the 5th day of June, 1930, proof having been filed of due service of all notices pursuant to the said Statute and to the directions of the Board given thereunder, and the Board having been pleased to adjourn the said hearing successively until the 24th day of June, the 25th day of September, the 11th day of November, the 15th and 18th days of December, 1930, the 17th day of February, the 19th day of March, the 14th day of April, the 19th day of May, 1931 and until this day, By-laws Nos. 12691, 12832 and 13168 passed by the Council of the Corporation of the City of Toronto on the 2nd day of June, 1930, the 20th day of October, 1930 and the 4th day of May, 1931, respectively, having been placed before the Board and considered on various of the dates aforesaid and proof having been filed of due service, pursuant to the aforesaid Statute and to the directions of the Board given thereunder, of all notices regarding the said By-law 13168 and its consideration at the said hearing on the 9th day of June, 1931, various owners affected by the aforesaid by-laws having on various of the days aforesaid, appeared before the Board in person or by counsel, having heard read the material filed and having heard what was alleged by all owners and counsel aforesaid,

The Board orders that By-law No. 12604 of the Corporation of the City of Toronto, being intituled, "A By-law to prohibit the use of land or the erection or use of buildings for any other purpose than that of a detached private residence or a single detached duplex on land abutting on certain highways in the Oriole Parkway district," as amended by By-law No. 12691 of the said Corporation, being intituled "A By-law to amend By-law No. 12604 respecting the use of land in the Oriole Parkway District," by By-law No 12832 of the said Corporation, being intituled "A By-law to further amend By-law No. 12604 respecting the use of land in the Oriole Parkway District" and by By-law No. 13168 of the said Corporation, being intituled, "A By-law to amend By-law No. 12604 in respect to a portion of Oriole Parkway," and the said By-laws 12691, 28321 and 13168 be and the same are hereby approved.

(Sgd.) A. B. INGRAM,
Vice Chairman.

(Seal)

PROCEDURE FILE A-2875

Application by the City of Toronto, under Section 398 of "The Municipal Act" for approval of its Restricted Area By-law 12665—restricting to detached residence or double duplex dwelling, the portion of Avenue Road between Roselawn Avenue and Briar Hill Avenue, in the said City.

February 17th. Hearing continued, 10.30 A.M.: 12.45 to 12.50 P.M. At request of Counsel Hearing adjourned to 19th March, 1931, at 10.30 A.M., at Board's Chambers.

March 19th. Hearing continued, 10.30 to 10.45 A.M. At request of Counsel for ratepayers opposing, Hearing adjourned *sine die*. Parties seeking adjournment to pay for new notices (City consenting). (See Reporter's Notes.)

PROCEDURE FILE A-2958a

(See P.F. A-2958)

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 12958, establishing a restricted district or zone in a portion of the City north of Roselawn Avenue and west of Rosewell Avenue and its production.

January 24th. New consolidating By-law 12958 (in lieu of By-law 12713 and amendments). (P.F. A-2958) filed.

February 17th. Hearing, 10.30 A.M.: 12.35 to 12.45 P.M. By-law to be amended as directed by the Board. (See Reporter's Notes.) Hearing adjourned to March 19th, at 10.30 A.M., at Board's Chambers.

March 19th. Hearing continued, 10.20 A.M.: 10.45 to 10.50 A.M. By-law approved as amended. Applicant's Solicitor to draft Order.

March 26th. Draft Order filed.

March 26th. Order.

March 19th, 1931.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, Subsection (2b) of "The Municipal Act," being R.S.O.

1927, Chapter 233, and amendments thereto, of its above recited By-law having come on for Hearing by appointment on the 17th day of February, 1931, in the presence of a large number of property owners affected and their representatives, and Counsel, and having been then adjourned till the 19th day of March, 1931, when it was further heard in the presence of certain property owners affected; this Board having heard read the affidavits filed proving due service of all notices, and the other material filed, and having heard what was alleged by Counsel aforesaid and by the said property owners and their representatives (the same subject matter having been formerly considered at length by this Board on former hearings on the 30th day of September, 1930, and on the 17th day of November, 1930, in respect to By-law No. 12713 and amending By-laws since repealed); and by-laws Nos. 12992 and 13043 of the said Corporation passed on the 9th day of February, 1931, and on the 9th day of March, 1931, respectively, to amend the aforesaid By-law No. 12958, having been laid before the Board and considered by them in connection with the aforesaid application;

The Board orders, under and in pursuance of the said Section 398, Subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter 233 and amendments thereto, that By-law No 12958 of the Corporation of the City of Toronto, being entitled "A By-law to establish a restricted district or zone in a portion of the City north of Roselawn Avenue and west of Rosewell Avenue and its production," as amended by By-law No. 12992 of the said Corporation, being entitled "A By-law to repeal By-law No. 12958 in so far as it prevents the erection of two private dwelling houses on the westerly 50 feet of Lot No. 42 on the north side of Roselawn Avenue closer to the side lot lines than the distance of 18 inches," and as further amended by By-law No. 13043 of the said Corporation, being entitled "A By-law to amend By-law No. 12958 establishing a restricted district or zone in a portion of the City north of Roselawn Avenue and west of Rosewell Avenue and its production," be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-2972

Application by the City of Kingston, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 31 (1930), to establish restricted districts or zones in the City of Kingston.

March 14th. Amending By-law No. 18 (1931), filed.
April 21st. Approved draft Order filed.
April 21st. Order issued.

March 17th, 1931.

Order

Upon the application of the Corporation, and upon reading a copy of the above By-law No. 31 (1930) and the amending By-law No 18 (1931), the consent thereto by A. E. Day, K.C., on behalf of Mrs. Richardson and the consent of W. H. Herrington on behalf of the Kingston Yacht Club, Ltd., and the other material filed.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that By-law No. 31 (1930), intituled "By-law No. 31 (1930). A By-law to establish Restricted Districts or Zones in the City of

Kingston," as amended by the said By-law No. 18 (1931), be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3030

Application by the Township of North York, under Section 398 of "The Municipal Act," for approval of the following Restricted Area By-laws:—

(*a*) By-law No. 866—Bayview and other streets;
(*b*) By-law No. 867—Bayview and other streets;
(*c*) By-law No. 868—20th Avenue East, and other streets;
(*d*) By-law No. 869—150 feet east of Yonge Street in northerly limit of City of Toronto, etc.;
(*e*) By-law No. 1096—First Avenue west of Yonge Street, etc.;
(*f*) By-law No. 1097—30th Avenue West, etc.;
(*g*) By-law No. 1098—Brooke Avenue, etc.;
(*h*) By-law No. 1099—150 feet north of Lawrence Avenue, etc.;
(*i*) By-law No. 1100—150 feet southerly from Lawrence Avenue, etc.,
all to detached private dwellings.

(Note: (*b*), (*e*) and (*h*) disposed of at Hearing on November 19th, 1930).

February 3rd. Hearings continued, 10.30 to 11 A.M.

(*a*) Amending By-law 1171 filed. By-law 866 approved as amended. Applicant's Solicitor to draft Order.
(*c*) Amending By-law to be filed. Application granted and Applicant's Solicitor to draft Order.
(*d*) Amending By-law 1173 to be filed. Application granted and Applicant's Solicitor to draft Order.
(*f*), (*g*) and (*i*)—At request of Counsel Hearing adjourned to 10.30 A.M., 16th March, 1931, at Board's Chambers.

March 16th. Hearings, re (*f*), (*g*) and (*i*) continued.

(*f*) 10.30 A.M.: 10.40 to 10.45 A.M. Stands for approval pending purchase of 20 feet by Township. By-law to be amended as per proposed amending By-law filed. Application approved. Certified copy of amending By-law to be filed when passed and Applicant's Solicitor to draft Order. (See Reporter's Notes.)
(*g*) 10.30 to 10.40 A.M. Proposed amending By-law filed. Application granted. By-law to be approved with proposed amendment. Applicant's Solicitor to draft Order and file certified copy of amending By-law.
(*i*) 10.30 A.M.: 10.45 to 10.55 A.M. At request of Applicant's Solicitor Hearing adjourned to 31st March, at 10.30 A.M., at Board's Chambers.

March 31st. Hearing—re (*i*)—continued, 10.30 to 10.45 A.M. Re Plan 1505, amending By-law to be passed (See Reporter's Notes). Hearing adjourned, at request of Applicant, to 14th April, 1931, at 10.30 A.M., at Board's Chambers.

April 14th. Hearing—re (*i*) continued, 10.30 to 10.40 A.M. Amending By-law 1138 filed. Application granted. Applicant's Solicitor to draft Order approving By-law 1100 as amended.

PROCEDURE FILE A-3081

BETWEEN:

William Gabel and Edwin Gabel,

Applicants,

—and—

The Corporation of the Town of Waterloo,

Respondent.

Reference under Section 99, Subsection (14) and (15) of "The Public Health Act" (R.S.O. (1927), Chapter 262), for an Order, Award or Finding in respect of damage or injury suffered by the Applicants by operation of Sewage Disposal Plant of the Respondent.

January 8th. Subpoena issued to Solicitors for Applicant.

January 10th. Subpoena issued to Solicitors for Respondent.

January 13th. Hearing, 10.30 A.M. to 12 M., at Council Chamber, Town of Waterloo. Application withdrawn, with leave to make further Application.

PROCEDURE FILE A-3092

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 12810, being a By-law to restrict the use for detached private residences only, land and buildings on part of Blythwood Road.

February 10th. Hearing continued, 10.30 to 10.40 A.M. At request of Counsel, Hearing adjourned to 18th March, 1931, at 10.30 A.M., at the Board's Chambers.

March 18th. Hearing continued, 10.30 A.M.: 10.40 to 11.15 A.M. Hearing concluded. By-law approved. Applicant's Solicitor to draft Order.

March 26th. Draft Order filed.

March 31st. Amending By-law No. 13009 filed.

March 31st. Order.

March 18th, 1931.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, Subsection 2 (b), of "The Municipal Act," being R.S.O. 1927, Chapter 233 and amendments thereto, of its above recited By-law having come on for hearing by Appointment on the 13th day of November, 1930, and having been successively adjourned till the 15th day of December, 1930, the 10th day of February, 1931 and till this day, and having now been heard at length in the presence of the property owners affected by the said By-law; this Board having heard read the affidavits filed proving due service of all notices, and the other material filed, and having heard what was alleged by Counsel for the said Corporation and by certain of the said property owners; and By-law No. 13009 of the said Corporation passed on the 23rd day of February, 1931, to amend the aforesaid By-law 12810 having been laid before the Board and considered by them in connection with the aforesaid application.

The Board orders, under and in pursuance of the said Section 398, Subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter 233 and amendments thereto, that By-law No. 12810 of the Corporation of the City of Toronto, being entitled "A By-law to restrict the use for detached private residences only of land and buildings on part of Blythwood Road," as amended by By-law No. 13009 of the said Corporation, being entitled "A By-law to amend By-law No. 12810 restricting the use of land on a part of Blythwood Road," be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3094 (Also A-3217g)

In the matter of the Application of the Corporation of the City of Toronto, under Section 18 of "The Local Improvement Act," for approval of its By-law No. 12788, amending its By-law No. 12323 by abandoning that part of the work authorized thereunder in respect of Nos. 7 and 114 Eglinton Avenue East.

And in the matter of the Application of the City of Toronto for approval of its By-law No. 12946, amending its By-law No. 12596 abandoning part of the work authorized thereunder.

February 12th. Hearing, 10.30 to 11.15 a.m. Judgment reserved pending Agreement on questions of law. (See Reporter's Notes.) Argument to be heard at 10.30 a.m., 24th February, 1931.

February 24th. Hearing continued, 10.30 a.m. to 12.45 p.m. Adjourned to 10.30 a.m., March 3rd, 1931.

March 3rd. Hearing continued, 10.30 a.m. to 12 m.d. Hearing concluded. Judgment reserved.

March 9th. Judgment delivered. Application refused.

Judgment

The above applications coming before this Board for Hearing on the 12th of February, 1931, the 24th of February, 1931, and the 3rd day of March, 1931, J. P. Kent, Assistant City Solicitor, appearing for the Applicant and John A. Rowland, K.C., appeared for the York Masonic Temple in opposition to the approval of said by-laws.

From the evidence submitted in connection with these applications it would appear that the Corporation of the City of Toronto having contemplated the widening of Eglinton Avenue East to make of that avenue a highway eighty-six feet wide passed a by-law through its Council to effect such widening, that subsequently an expropriation by-law was passed expropriating for the purpose of such widening ten feet on either side of Eglinton Avenue East and certain parts of the expropriated property were taken possession of by the Corporation of the City of Toronto and certain work done thereon in compliance with the said widening by-law and the expropriation by-law. As the work proceeded it became apparent that a certain building known as the "York Masonic Temple" would be so interfered with by the widened thoroughfare that the expense occasioned to the City of Toronto by reason of such expropriation, as far as the York Masonic Temple is concerned, would be in or about Sixty-eight Thousand Dollars ($68,000.00). Accordingly, it was thought desirable by certain members of the Board of Control and the City Council that a part of the work, viz.: a few feet in width immediately opposite to the said Masonic Temple and across its full width should be abandoned, it being thought that by such abandonment of the work the said damages of Sixty-eight Thousand odd dollars would be very greatly reduced.

If this policy were carried out the said line as widened would continue eastward from Yonge Street until it reached the Masonic Temple, would then make a small jog northerly, proceed easterly until the Masonic Temple is passed, jog southerly again to the original line and then proceed easterly as set out in the original line, thereby leaving the present Masonic Temple extending a small distance into what would be the widened street were it carried into effect as originally set out in the by-law.

It was contended by the Solicitor for the Masonic Temple that any interference, be it ever so small, with the present location of either the steps or front wall of the Masonic Temple would cause very material damage to the said Temple, and that the cost to the City of Toronto would be very little less in the opinion of the Solicitor for the Masonic Temple than it would be if the line were carried through as originally intended.

Then representatives of the Salvation Army appeared to oppose the approval of said amending by-law, contending that as the owners of the property immediately east of the Masonic Temple if the Army subsequently desires to build upon its property it would find the street line back further than the projecting wall of the Masonic Temple and thereby reduce the value of its property accordingly.

The Corporation of the City of Toronto having passed its widening by-law and having passed its expropriation by-law and having under the expropriation by-law gone into possession of at least a part of the property so expropriated, is not now, it was argued, in a position to rescind a portion of the expropriation by-law and proceed as to the balance. Following the decision in *re* Mayo and the City of Toronto (64 O.L.R., Chapter 139), that "under The Municipal Act a municipal corporation has the right to rescind an expropriation by-law at any time until possession has been taken or the award has otherwise been adopted but that after taking possession or otherwise adopting the award the said corporation has no such right," this Board holds the said objection well taken.

However, it may not be necessary to rely on the legal question inasmuch as taking into consideration the improvement of the thoroughfare in question, the fact that certain property owners were settled with for the land expropriated on the understanding and belief that the property expropriated would all be taken and that the street line east of Yonge Street would remain as originally set out, and considering the objections made by property owners immediately adjacent to the said Masonic Hall Temple, this Board cannot see its way clear to approve of the said by-laws on their merits.

(Sgd.) C. R. McKeown,
Chairman.

Approved:
(Sgd.) A. B. Ingram,
Vice-Chairman.
(Sgd.) J. A. Ellis,
Commissioner.
Toronto, March 9th, 1931.

Procedure File A-3114

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12833, restricting, to use for detached private residences only, the land and buildings on Heath Street East.

February 10th. Hearing continued, 10.30 to 10.40 A.M. At request of Counsel Hearing adjourned to 10.30 A.M., 18th March, 1931.

March 18th. Hearing continued, 10.30 to 10.40 A.M. At request of Applicant's Counsel Hearing adjourned to 14th April, 1931, at 10.30 A.M.

April 14th. Hearing continued, 10.30 to 11.30 A.M. Amending By-law 13129 filed. City to assume risks *re* Notice owing to amendment. Hearing adjourned to 29th April, 1931, at 10.30 A.M. (See Reporter's Notes.)

April 21st. Certified copies of By-law 13129, amending 12833, filed.

April 29th. Hearing continued, 10.30 A.M.: 10.40 to 10.50 A.M. Adjourned at request of Counsel to 10.30 A.M., 27th May, 1931, pending amendment of By-law to permit double duplex on Mr. Chitty's client's property. (See Reporter's Notes.)

May 27th. Hearing continued, 10.30 A.M.: 11.30 to 11.35 A.M. Application granted. By-law 12833, as amended by By-laws 13129 and 13194, approved. Applicant's Solicitor to draft Order.

June 2nd. Draft Order filed.

June 2nd. Order

May 27th, 1931.

ORDER

The application of the Corporation of the City of Toronto pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, for approval of its above mentioned By-law 12833, having come on for hearing by appointment before this Board on the 2nd day of December, 1930, in the presence of a number of property owners affected, proof having been filed of due service of notices as required by the said Statute, and pursuant to the directions of the Board, the Board having heard what was alleged by all parties present or represented and having been pleased to adjourn the Hearing successively until the 10th day of February, the 18th day of March, the 14th and 29th days of April, 1931, and until this day, By-laws Nos. 13129 and 13194, passed by the Council of the Corporation of the City of Toronto on April 7th, 1931, and May 18th, 1931, respectively, having been laid before the Board and considered by them at certain of the Hearings aforesaid, and it appearing that all serious objections upon the part of the property owners have now been satisfied,

The Board orders, under and in pursuance of the above mentioned Statute, that By-laws Nos. 12833, 13129 and 13194 of the Corporation of the City of Toronto, being intituled respectively "No. 12833. A by-law to restrict to use for detached private residences only land and buildings on Heath Street East;" "No. 13129. A By-law to amend By-law No. 12833 restricting to use for detached private residences only land and buildings on Heath Street East;" "No. 13194. A By-law to amend By-law No. 12833 restricting the use of land and buildings on Heath Street East," be and the same are hereby approved.

(Sgd.) C. R. MCKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3115

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12834, restricting to use for detached private residences only land and buildings on Rosehill and Avoca Avenues.

February 10th. Hearing continued, 10.30 to 10.40 A.M. At request of Counsel Hearing adjourned to 10.30 A.M., 18th March, 1931.

March 18th. Hearing continued, 10.30 A.M.: 11.15 to 11.20 A.M. At request of Counsel for Applicant Hearing adjourned to 10.30 A.M., 14th April, 1931.

April 14th. Hearing continued, 10.30 to 10.45 A.M. At request of Counsel adjourned to 10.30 A.M., 19th May, 1931.

May 19th. Hearing continued, 10.30 A.M.: 11.20 to 11.25 A.M. Hearing concluded. Judgment delivered (*viva voce*). Application granted. Applicant's Solicitor to draft Order.

June 4th. Consent of City to re-opening of Application filed.

October 24th. Certified copy of By-law 13390, amending By-law 12834, filed.

November 17th. Hearing, 10.30 A.M.: 11.10 A.M. to 12.10 P.M. Hearing concluded. By-law approved as amended.

November 23rd. Draft Order filed.

December 2nd. Order issued.

November 17th, 1931.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its By-law No. 12834, having come on for Hearing by appointment before this Board on the 2nd day of December, A.D., 1930, and having been adjourned until and heard further on the 10th day of February, the 18th day of March, the 14th day of April, the 19th day of May and on this day, in the presence of various property owners affected and their representatives, proof having been filed of due service of all notices pursuant to the said Statute and the directions of the Board given thereunder and By-law No. 13390 passed by the Council of the Corporation of the City of Toronto on the 19th day of October, A.D. 1931, to amend the aforesaid By-law No. 12834 having been duly laid before the Board and considered this day, the Board having heard read the said By-laws and the other material filed, and having heard what was alleged by all persons at any time before the Board,

The Board orders, under and in pursuance of the aforesaid Statute, that By-law No. 12834 of the Corporation of the City of Toronto, being intituled "A By-law to restrict to use for detached private residences only land and buildings on Rosehill and Avoca Avenues," as amended by By-law No. 13390 of the said Corporation, being intituled "A By-law to amend By-law No. 12834 in respect to certain residential restrictions on Rosehill and Avoca Avenues," and the said By-law No. 13390 be and the same are hereby approved.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3125

Application by the City of Toronto, under section 398, subsection 2 (b), of "The Municipal Act," for approval of its By-law No. 12835, repealing its By-law 11961 (as amended by By-law 12163) in so far as it prevents the erection of an Apartment House at Nos. 40 and 42 Wells Street.

January 20th. Hearing continued, 10.30 to 10.40 A.M. Adjourned, at request of Counsel, to 10th February, 1931, at 10.30 A.M., at Board's Chambers.

February 10th. Hearing continued, 10.30 to 11.05 A.M. Application dismissed.

PROCEDURE FILE A-3142

In the matter of Section 3, Chapter 56, R.S.O. (1927)

BETWEEN:

The Ottawa Electric Company, Limited,

Applicant,

—and—

The Ottawa Suburban Roads Commission,

Respondent.

Compensation for removal of certain poles and lines of the Applicant on south side of the Richmond Road, between Island Park Driveway and the eastern limit of the Village of Westboro'.

January 6th. Hearing, 9 to 11 A.M., Court House, Ottawa. Application dismissed.

January 17th. Approved draft Order filed.

January 19th. Order issued.

January 6th, 1931.

ORDER

1. This application coming on for Hearing the 6th day of January, A.D. 1931, at the Court House, in the City of Ottawa, in the presence of Counsel for all Parties, upon hearing read the pleadings and hearing the evidence adduced and what was alleged by Counsel aforesaid.

2. This Board doth order and adjudge that the Respondent do pay to the Applicant the sum of $555.47, being fifty per cent. of the labour expense of the undertaking described in the pleadings herein.

3. This Board doth further order and adjudge that the Application of the Applicant, to have the Respondent pay the cost of the material and the whole of the labour expense of the said undertaking, be and the same is hereby dismissed.

4. This Board doth further order the Applicant to pay the Board's tariff fee for Law Stamps on this Order amounting to $15.00.

(Sgd.) C. R. MCKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3143

In the matter of "The Railway and Municipal Board Act."

BETWEEN:

The Hydro-Electric Power Commission of the Township of Scarborough,

Applicant,

—and—

The Hydro-Electric Power Commission of the City of Toronto and Rayner Construction, Limited,

Respondents.

Complaint as to alleged contravention of Section 50, subsection (3) of "The Power Commission Act" (Chapter 57, R.S.O., 1927), and Application for relief under Section 20 of the Board's Act.

May 13th. Hearing 10.30 A.M. Adjourned *sine die* at request of Counsel.

June 15th. Hearing continued, 10.30 to 11.30 A.M. Adjourned *sine die* subject to being heard to-morrow or the following day if all Counsel agree thereto. (See Reporter's Notes.)

PROCEDURE FILE A-3156

Application by the Township of Scarborough, under 13-14 Geo. V, Chapter 88. (being a special Act of the said Township), for approval of its By-law 1751, setting apart a certain defined area of the said Township to be known as Water Area No. 3.

January 27th. Further material filed.
January 27th. Draft Order filed.
January 27th. Order.

January 27th, 1931.

ORDER

Upon this matter coming on for Hearing on the 12th day of December, 1930, public notice of the Hearing having been duly given as directed by the Board, and upon hearing what was alleged by Henry E. Redman, Esquire, Counsel for the Applicant, and upon reading a copy of the said proposed By-law and other material filed, and upon hearing what was alleged by Paul Mills, Esquire, Counsel for persons opposed to the said By-law, and upon hearing what was alleged by all persons present who desired to be heard, and upon hearing what was alleged by said Counsel and by all persons present who desired to be heard at an adjourned hearing of the said application held on the 22nd day of December, 1930, and upon reading the resolution of the Municipal Council of the said Corporation passed on the 26th day of January, 1931, and this day presented to the Board:

The Board doth order, under and in pursuance of the provisions of Chapter 88 of the Statutes of Ontario passed in the 13th and 14th years of the Reign of His Majesty, King George V, that the said By-law No. 1751 intituled "By-law No. 1751 of the Township of Scarborough, being a by-law to set apart a further defined area of the Municipality to be known as Water Works Area Number 3, and to authorize the construction and extension of the Scarborough Water Works in such area, and to authorize the construction of mains in such area, and to authorize the imposition and levy of the rates which have already been imposed upon Water Works Areas Numbers 1, 2, 4, 5 and 6 at large in respect to said water works remaining unpaid after the 15th day of December, 1930, on said Water Works Area Number 3 as well as on Water Works Areas Numbers 1, 2, 4, 5 and 6," be and the same is hereby approved.

(Sgd.) C. R. MCKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3161

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 12892, restricting use of land and buildings, in area bounded by Howard, Wellesley, Bleecker and Ontario Streets, to residence, apartment house, boarding or rooming house.

January 20th. Hearing, 10.30 A.M.: 10.40 to 10.55 A.M., at Board's Chambers. Adjourned, at request of Counsel and Parties, to 18th March, 1931, at 10.30 A.M.

March 18th. Hearing continued, 10.30 to 10.40 A.M. Adjourned at request of Counsel for Applicant to April 1st, 1931, at 10.30 A.M.

April 1st. Hearing continued, 10.30 to 10.40 A.M. Amending By-law 13091 filed. By-law approved as amended. Applicant's Solicitor to draft Order.

April 8th. Draft Order filed.

April 8th. Order.

April 1st, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O. 1927, Chapter 233, for approval of its aforesaid By-law having come on by appointment for Hearing before this Board on the 20th day of January, 1931, and having been adjourned until the 18th day of March, 1931, and until this day, upon hearing read the said By-law and the affidavits filed proving service of all notices as required by Statute, and upon hearing what was alleged by Counsel for the Corporation of the City of Toronto, and By-law No. 13091 of the Corporation of the City of Toronto passed on the 23rd day of March, 1931, to amend the aforesaid By-law No. 12892 having been laid before this Board and considered in connection with the aforesaid application.

It is ordered that By-law No. 12892 of the Corporation of the City of Toronto, being intituled "A By-law to prohibit the use of land or the erection or use of buildings for any other purpose than that of a residence, an apartment house, a boarding house or a rooming house within the area bounded by Howard, Wellesley, Bleecker and Ontario Streets, as amended by By-law No. 13091 of the said Corporation, being intituled "A By-law to amend By-law No. 12892 respecting the area bounded by Howard, Wellesley, Bleecker and Ontario Streets," be and the same is hereby approved.

(Sgd.) C. R. MCKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3173

Application by the Village of Stouffville, under Section 16 of "The Municipal Act," for the annexation thereto of parts of the Townships of Whitchurch and Markham.

January 13th. Approved draft Order filed.

January 15th. Order issued.

December 22nd, 1931.

ORDER

Upon the application of the above-named Corporation, upon reading the Application herein filed with the Board, and the Resolution of the Council of the Corporation of the Village of Stouffville passed on the 18th day of November, 1930, and upon Hearing what was alleged by Counsel on behalf of the said Corporation of the Village of Stouffville, no one appearing for the Townships of

Markham and Whitchurch, or in opposition to the Application, and Public Notice of the hearing having been given as directed by the Board,

This Board doth order and proclaim that the portion of the Township of Whitchurch, in the County of York, described as follows:—

> That part of Township Lot Number Two (2) in the Ninth Concession of the Township of Whitchurch, in the County of York, described as follows: Commencing at a point on the southern limit of said Lot Two at the distance of 9 chains and 28 links measured westerly from the centre of said lot; Thence continuing westerly along the south limit of said lot a distance of 335 feet; Thence north 13 degrees 30 minutes west 635 feet; Thence north 78 degrees 8 minutes east 200 feet; Thence north 77 degrees 40 minutes east 135 feet; Thence southerly 13 degrees 30 minutes east 635 feet in a straight line to the place of beginning; said lands containing 4.76 acres more or less and being the lands laid out on what is known as registered Plan No. 72 for the said Township of Whitchurch;
>
> And the portion of the Township of Markham, in the County of York, described as follows:—
>
> That part of Township Lot Number Thirty-four (34) in the Ninth Concession of the Township of Markham, containing by admeasurement three acres and fifteen-sixteenths parts of an acre be the same more or less and which may be more particularly described as follows:—Commencing on the northerly boundary of said Lot at the centre of the said Concession; Thence on said northerly boundary course north 75 degrees and 25 minutes east 4 chains, 38½ links; Thence south one degree and 50 minutes east 10 chains and 7½ links more or less to the centre of the said lot; Thence south 75 degrees and 25 minutes west 5 chains and 44 links more or less to the westerly boundary of said half lot; Thence on said boundary course north 7 degrees and 30 minutes west 10 chains and 7½ links more or less to the place of beginning, being the southerly part of what is now known as Memorial Park, Stouffville, now owned by the Corporation of the said Village of Stouffville;

Be, and the same are hereby annexed to the Village of Stouffville and the said annexation shall take effect on and after the 31st day of December, 1930, upon and subject to the following terms and conditions, namely:

1. That the taxes, assessments, water, school, and other rates in respect of the annexed districts to be levied by the Village of Stouffville in respect of the said territory shall for the year 1931 and thereafter belong to the Corporation of the Village of Stouffville, and shall be on the same basis and payable at the same time and in the same manner as taxes, assessments, water, school, and other rates levied and raised from time to time on the property within the old boundaries of the said Village.

2. (*a*) All taxes imposed by the Township of Whitchurch and the Township of Markham in the said respective annexed districts for the year 1930 and any and all arrears of taxes to the 31st day of December, 1930, in the said respective districts shall belong to the said Township of Whitchurch and the Township of Markham, respectively, and may be collected as provided by "The Municipal Act" or "The Assessment Act."

(*b*) That each of the Corporations of the Townships of Whitchurch and Markham shall forthwith prepare and furnish to the Corporation of the Village of Stouffville a special Collector's roll showing all arrears of taxes or special rates assessed against the said lands in the said respective annexed districts up to the 31st day of December, 1930, and all persons assessed therefor.

(*c*) That the said arrears of taxes, according to the said special rolls shall be collected by the Corporation of the Village of Stouffville and that the right to collect same, including the right of distress for non-payment of said arrears, or if necessary the right to sell the said lands, if any, for non-payment of such arrears shall be vested in the Corporation of the Village of Stouffville, but the proceeds of the collection of such arrears or any part of same, after deducting therefrom the proper costs and expenses in connection with the collection of same, shall be paid by the Corporation of the Village of Stouffville to the said Corporations of the Townships of Whitchurch and Markham, respectively, on the First day of January and July after collection. That the said Corporations of the Townships of Whitchurch and Markham shall indemnify and save harmless the Corporation of the Village of Stouffville from all loss, costs, charges and expenses arising from the collection or attempted collection of any arrears as shown on said special rolls.

3. The Townships of Markham and Whitchurch shall furnish the Corporation of the Village of Stouffville with certified copies of all special assessment rolls for local improvements in the said respective areas together with all By-laws for levying the special rates thereon, the collection of which special rates are to be made by the Corporation of the Village of Stouffville, and shall at all reasonable times allow the Corporation of the Village of Stouffville, its servants and agents, access to the assessment rolls of the said portions of the said Townships of Whitchurch and Markham, respectively, and also all Plans, surveys, and maps applicable to the said portions of the said Townships for the purpose of making copies of the same.

4. The residents of the districts to be annexed shall be entitled to water and electric light from the Stouffville Water Works System and the Stouffville Hydro-Electric System upon the same terms and conditions as the residents of Stouffville.

5. This Order shall come into force on the 31st day of December, 1930.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3194

Application by the City of Kitchener, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 2189 amending its Zoning Ordinance By-law 1823 (as amended by 1834 and 1835) by the addition of a certain business district in section 1, Division C, Business Districts, thereof.

February 4th. Hearing, 10.20 to 10.30 a.m., Council Chamber, Kitchener. Application granted.

February 7th. Draft Order filed.

February 7th. Order.

February 4th, 1931.

Order

Upon the application of the said Corporation, upon reading the copy of the said By-law and other material filed, and the Board having this day, pursuant to Appointment, at the Council Chamber, in the City of Kitchener, heard all parties interested, no one appearing in opposition to the Application although public notice of the Hearing was duly given as directed by the Board,

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 2189, being a By-law to amend the Zoning Ordinance, be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3203

Application by the Township of Plympton, under Section 469 (9) of "The Municipal Act," for relief from obligation to rebuild bridge over Bear Creek at a point on road allowance between Lots 27 and 28, Concession I, of said Township.

January 28th. Hearing, 9 to 11 a.m., at Court House, Sarnia. The Township to be relieved of maintenance of Bridge on payment of $600 to Mortgagees against the land of W. T. Brereton, Lot No. 28. The owner to have use of bridge and maintain it at his own expense. $200 to be paid to A. Davis, he to agree with W. T. Brereton as to use of bridge. Applicant's Solicitor to draft Order.

January 31st. Order settled.

April 1st. Order issued.

March 31st, 1931.

Order

This application having come up for Hearing on the 28th day of January, 1931, at the City of Sarnia, Notice having been given as directed, pursuant to Appointment, before the Board in the presence of Counsel for the Applicant, for Alice J. Marwick and for the Official Guardian representing Merle Armstrong, infant daughter of James Ethelbert Armstrong, deceased, upon hearing the evidence adduced and what was alleged by Counsel aforesaid;

(1) This Board doth order that the Applicant, the Corporation of the Township of Plympton be and it is hereby relieved from the obligation to rebuild the bridge on the road allowance between Lots 27 and 28 in the 1st Concession of the Township of Plympton.

(2) And this Board doth further order that the Applicant, the Corporation of the Township of Plympton, do forthwith pay to Albert Davis the sum of Two Hundred Dollars ($200.00) and to Alice J. Marwick, as Mortgagee of the lands of W. Brereton, the sum of Six Hundred Dollars ($600.00) to be applied upon her said Mortgage by Consent, as damages by reason of the access from one part of the lands in which each of them is interested to the other part being interfered with by the non-rebuilding of the bridge.

(3) And this Board doth further order that the Applicant, the Corporation of the Township of Plympton, do pay to the Official Guardian his costs of the application.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3209

Application by the City of Toronto, under Section 398 (2b) of "The Municipal Act," for approval of its By-law 12930, repealing its Restricted Area By-law

No. 11309 to permit the erection of a three-family apartment house on land between Nos. 94 and 100 Tyndall Avenue.

January 26th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted. City Solicitor to draft Order.

January 28th. Draft Order filed.

January 29th. Order issued.

January 26th, 1931.

ORDER

Upon the application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, for approval of its above mentioned By-law 12930, the said application having been heard this day pursuant to the Board's appointment, and it appearing that all notices of the date fixed by the Board for hearing the application as required by the said Statute have been duly sent in accordance with the instructions of this Board, upon hearing what was alleged by the said Corporation, and it appearing that there was no opposition to the said application;

The Board orders under and in pursuance of the above mentioned Statute that By-law No. 12930 of the Corporation of the City of Toronto, being intituled "No. 12930. A By-law to repeal By-law No. 11309 in so far as it prevents the erection and use of a three-family apartment house building on the land between Nos. 94 and 100 Tyndall Avenue," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3211

Application by the Township of York, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law 10742, being a By-law to prohibit the use of land or the erection or use of buildings, in area bounded on the east by the west limit of Dufferin Street, on the north by the north Township limit, on the east by the Canadian National Right-of-way and on the south by the north limit of Castlefield Avenue and line produced westerly from the north limit of Castlefield Avenue, except for certain purposes defined in the By-law.

January 2nd. Application and material filed.

February 2nd. Hearing, 10.30 to 10.45 A.M., at Board's Chambers. Adjourned at request of Counsel to Wednesday, the 18th February, 1931, at 10.30 A.M.

February 18th. Hearing continued, 10.30 to 11.15 A.M. Application granted. Applicant's Solicitor to draft Order.

February 19th. Draft Order filed.

February 19th. Order issued.

February 18th, 1931.

ORDER

Upon the application of the Corporation of the Township of York for approval of its By-law No. 10742, the Application having been heard on the 2nd day of February, 1931, the same having been adjourned until this day. Upon reading the Declaration proving service of the Notice of Application by registered mail on all the owners affected by the said By-law whose names appear on the last revised assessment roll of the Municipality as required by the provisions of Section 398 of "The Municipal Act." Upon hearing the evidence adduced and what was alleged by Counsel for the Applicant and by Counsel for the owner of ands affected by the said By-law,

1. The Board orders, under and in pursuance of Section 398 of "The Municipal Act," that the said By-law No. 10742, passed by the Council of the Corporation of the Township of York on the 23rd day of December, 1930, be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3210

Application by the City of Toronto, under Section 398, subsection 2 (b) of "The Municipal Act," for approval of its By-law No. 12949, repealing its By-law No. 9712 to permit the conversion of No. 20 Maynard Avenue into a duplex dwelling house.

January 26th. Hearing, 10.30 A.M.: 10.40 to 10.45 A.M., at the Board's Chambers. Application granted, City Solicitor to draft Order.

January 28th. Draft Order filed.

January 29th. Order issued.

January 26th, 1931.

ORDER

Upon the application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter 233, for approval of its above mentioned By-law No. 12949, the said Application having been heard this day pursuant to the Board's Appointment, and it appearing that all Notices of the date fixed by the Board for hearing the application as required by the said Statute have been duly sent in accordance with the instructions of this Board, upon hearing what was alleged by the said Corporation, and it appearing that there was no opposition to the said application.

The Board orders, under and in pursuance of the above mentioned Statute that By-law No. 12949 of the Corporation of the City of Toronto, being intituled "No. 12949. A By-law to repeal By-law No. 9712 in so far as it prevents the conversion of No. 20 Maynard Avenue into a duplex dwelling house," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3217g

(See P.F. A-3094)

Application by the City of Toronto, under Section 18 of "The Local Improvement Act," for approval of its By-law No. 12946, amending its By-law 12596 by abandoning part of the work authorized thereunder.

January 3rd. Application filed.

February 12th. Hearing. Judgment reserved pending argument on questions of law. (See Reporter's Notes.) Argument to be heard at 10.30 A.M. 24th February, 1931.

February 24th. Hearing continued, 10.30 A.M. to 12.45 P.M. Adjourned to March 3rd, 1931, at 10.30 A.M.

March 3rd. Hearing continued, 10.30 A.M. to 12 MD. Hearing concluded. Judgment reserved.

March 9th. Judgment delivered. Application refused. (See P.F. A-3094.)

PROCEDURE FILE A-3239

Application by the Township of York, under Section 2, Chapter 108, Ontario Statutes, 1926, for approval of its By-law No. 10776, to consolidate Fairbank Fire Area No. 3 with St. Clair Fire Area No. 7, to be known as "Ward One Fire Area No. 1."

January 23rd. Application and material filed.

February 23rd. Hearing, 10.30 to 11.10 A.M., at Board's Chambers. Application granted; Applicant's Solicitor to draft Order.

February 28th. Draft Order filed.

February 28th. Order.

February 23rd, 1931.

ORDER

Upon the application of the Corporation of the Township of York, upon reading the material filed, upon hearing what was alleged by Counsel for the Applicant and Notice of the Hearing this day of the said Application having been duly given as directed by the Board, as appears by the affidavits of John Harvey and Peter Laverie, filed.

1. This Board orders that By-law No. 10776 passed by the Council of the Corporation of the Township of York on the 19th day of January, 1931, consolidating Fairbank Fire Area No. 3 and St. Clair Fire Area No. 7 into one Fire Area to be known as Ward One Fire Area No. 1, be and the same is hereby approved.

(Sgd.) C. R. MCKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3244

Application by the Village of Forest Hill, under Section 398, subsection 2 (b), of "The Municipal Act," for approval of its By-law No. 520, amending its Restricted Area By-law No. 285 to permit the erection of detached residences only on land south of Eglinton Avenue.

January 26th. Application and material filed.

March 24th. Hearing, 10.30 A.M.: 10.35 to 11.15 A.M., at Board's Chambers. Adjourned to 23rd April, 1931, at 10.40 A.M., as to owners already notified; other owners to be notified as required by Statute.

April 23rd. Hearing continued, 10.30 A.M.: 12 M.D. to 1 P.M. Adjourned to 27th May, 1931, at 10.30 A.M.

May 27th. Hearing continued, 10.30 to 11.30 A.M. Application granted; By-laws 520, 540 and 560 approved. Certain properties to be exempted from the amending By-laws. Applicant's Solicitor to draft Order, same to be approved by Counsel for all Parties interested as owners. (See Reporter's Notes.)

PROCEDURE FILE A-3253

In the matter of the application of the Corporation of the Village of Cardinal, under Section 16 of "The Municipal Act," for annexation thereto of part Lots 1, 2 and 3, and part Lots 7, 8, 9 and 10, Concession I, Township of Edwardsburg.

January 29th. Application and material filed.

October 8th. Hearing, pursuant to Appointment, 6 P.M., Village Hall, Cardinal. Board directs that the following shall be filed with the Board:—Survey of property to be annexed, prepared and certified by an Ontario Land Surveyor; Agreement as to adjustments between the Village and the Township; Declaration as to Number of Ratepayers in the property to be annexed.

Order to issue as of January 1st, 1932. Draft Order, marked "approved by Messrs. Casselman & Beaumont. Solicitors for the Township, to be filed.

PROCEDURE FILE A-3258

In the matter of the application of the Corporation of the City of Sudbury, under Section 20 of "The Municipal Act," for annexation thereto of part of the north half of Lot 7, Con. II, lying south and east of the Algoma Branch of The Canadian Pacific Railway, of the Township of McKim.

February 2nd.	Application and material filed.
February 11th.	Application granted.
February 21st.	Approved draft Order filed.
February 24th.	Amendment to draft Order filed.
February 24th.	Order issued.

February 11th, 1931.

ORDER

Upon the application of the Municipal Corporation of the City of Sudbury for an Order annexing that part of the Township of McKim hereinafter described to the City of Sudbury, upon reading the Resolution of the Council of the Municipal Corporation of the City of Sudbury; the Resolution of the Council of the Municipal Corporation of the Township of McKim, consenting thereto; the affidavit of William J. Cook, of the City of Sudbury, the owner of the above described land, and the other material filed,

The Board orders, under and in pursuance of Section 20 of "The Municipal Act," that that part of the Township of McKim which is adjacent to the City of Sudbury described as follows:—

> All that part of the north half of Lot Number Seven (7) in the Second Concession of the said Township of McKim lying south and east of the Algoma Branch of the Canadian Pacific Railway,

be and the same is hereby annexed to the City of Sudbury and shall form part of Ryan Ward in the said City of Sudbury, such annexation to take place and have effect on the day of the date hereof.

And it is further ordered that the Township of McKim shall be entitled to make the assessment and collect the taxes on the aforesaid land for the year 1931.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3262

Application by the Corporation of the City of Toronto, under Section 44 of "The Municipal Act," for approval of a redivision of Wards 2 and 3 of the said city.

February 13th. Application, copy of Resolution of the City Council and other material filed.

March 2nd. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Application granted; Applicant's Solicitor to draft Order.

March 9th. Draft Order filed.

March 9th. Order issued.

March 2nd, 1931.

ORDER

Upon the application of the Corporation of the City of Toronto, upon hearing read the Resolution adopted by the Council of the said Corporation on the ninth day of February, 1931, by a vote of two-thirds of all the members of the Council, and upon hearing read the Declaration of Albert Alexander Garsant, proving publication of the Notice published in the *Evening Telegram*, a newspaper published in the City of Toronto,

1. This Board doth order that Wards Nos. 2 and 3 of the City of Toronto as at present constituted be redivided into three Wards by the following boundary, namely, the Right-of-Way of the Toronto Belt Line Railway Company.

2. And this Board doth further order that the portion of the said wards lying to the north of the said boundary shall hereafter be known as Ward No. 9 and that the portion of the said Ward No. 2 lying to the south of the said boundary shall hereafter be known as Ward No. 2 and that the portion of the said Ward No. 3 lying to the south of the said boundary shall hereafter be known as Ward No. 3 of the said City.

3. And this Board doth further order that this Order shall come into effect on Thursday, the 17th day of December, 1931.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3263

In the matter of Section 83 of "The Assessment Act," and in the matter of an appeal thereunder,

BETWEEN:

The Municipal Corporation of the Town of Cobalt,
Appellant,

—and—

C. Laurin,
Respondent.

(Land and Buildings—$51,500).

February 13th. Notice of Appeal filed.

March 10th. Hearing, 10.45 A.M. to 4 P.M., Town Hall, Cobalt. Judgment reserved.

March 13th. Judgment delivered; Appeal dismissed.

JUDGMENT

This was a Hearing by way of appeal from the finding of His Honour the Judge of the District Court of the District of Timiskaming, held at Cobalt on Tuesday, the 10th day of March, A.D. 1931.

The property in question known as the Royal Exchange property, had been assessed by the Assessor for the Town of Cobalt for $51,500.00 and from this assessment the Respondent appealed to the District Judge aforesaid who fixed the assessment at $30,000.00. From this last fixed assessment of $30,000.00, the Town of Cobalt now appeals to this Board. Subsequent to the hearing before His Honour the Judge of the said District Court, the property in question was sold by the then owner—C. Laurin, to Hiram Moses Lebinoff, who paid therefor by way of exchange certain properties in the City of Montreal and had the transfer of the Cobalt property made to his wife.

Upon the application of R. D. Cummings, the said Hiram Moses Lebinoff was substituted for the said C. Laurin as the Respondent herein.

From the evidence submitted it appeared that the price paid by the said Hiram Moses Lebinoff for the said property was $30,000.00 and that by way of exchange for the property in the City of Montreal, upon which the said Hiram Moses Lebinoff had placed a fairly high value. In addition to this the said Lebinoff acting for his wife swore that he would be quite willing to take $25,000.00 or possibly less for the property and after hearing the evidence of all parties and the argument submitted both for the Appellant and Respondent, this Board is of the opinion that it could not alter the assessment fixed by His Honour the Judge of the said District Court.

The Order of this Board will therefore be that the assessment of $30,000.00 for land and buildings combined, as fixed by the said District Judge, shall be confirmed.

The application is therefore dismissed and there shall be no costs save and except the fee required for issuing the Order herein, amounting to $15.00 to be paid by the Corporation of the Town of Cobalt.

(Sgd.) C. R. McKEOWN,
Chairman.

Dated at Toronto,
this 31st day of March, A.D. 1931.

I agree:
(Sgd.) A. B. INGRAM,
Vice-Chairman.

I agree:
(Sgd.) J. A. ELLIS,
Commissioner.

PROCEDURE FILE A-3271

In the matter of "The Walkerville-East Windsor Water Commission Act, 1930,"

And in the matter of an Appeal under Section 19, subsection (1) thereof.

BETWEEN:

The Corporation of the Town of Riverside,

Appellant,

—and—

The Walkerville-East Windsor Water Commission,

Respondent.

(Adoption of New Schedule of Water Rates).

February 20th. Notice of Appeal filed.

March 5th. Reply of Commission filed.

May 7th. Hearing—Return of Notice of Motion for special Procedure Order—10.30 A.M.: 10.40 to 11.40 A.M., ar Board's Chambers. Counsel for Appellants may file and serve authorities. Respondent to have the right to reply thereto. Judgment on Motion reserved one week. (See Reporter's Notes.)

PROCEDURE FILE A-3272

In the matter of Sections 56 and 59 of "The Highway Improvement Act" (Chapter 54, R.S.O. 1927) and amending Acts,

And in the matter of Section 28 of "The Public Works Act" (Chapter 52, R.S.O. 1927) and amending Acts,

BETWEEN:

The Provincial Improvement Corporation, Limited,

Claimant,

—and—

The Department of Highways of Ontario,

Respondent.

(Compensation for lands expropriated, being Part Lot 1, Range 5, Kingsmill Reserve, Township of Etobicoke; Part road allowance between Lots F and 1, Etobicoke; and part Lot 23, Registered Plan 1176, York.)

February 20th. Reference filed by the Honourable the Minister of Highways

February 25th. Statement of Claim filed.

April 8th. Statement of Defence filed.

April 24th. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Adjourned, at request of Counsel, to May 20th, 1931, at 10.30 A.M.

May 20th. Hearing continued, 10.30 A.M. to 4.15 P.M. On motion to amend Particulars of Claim (Paragraph 9) Board decides it has not jurisdiction unless the amended Claim be referred to it by the Minister under "The Highway Improvement Act" and "The Public Works Act." Motion therefore not allowed. Pending new Reference by the Minister the Hearing adjourned to 10th June, 1931, at 10.30 A.M.

June 10th. Hearing continued, 10.30 to 11.45 A.M. Argument heard as to Board's jurisdiction to entertain, hear and determine proposed new or amended Claims. Board rules that it has not jurisdiction, new or amended Claims not having been referred to the Board by the Minister of Highways. (See Reporter's Notes.) Hearing adjourned *sine die*.

September 30th. Hearing continued, 10.50 A.M. to 5 P.M.

October 1st. Hearing continued, 10 A.M. to 5 P.M. Adjourned to 14th October, 1931, at 10 A.M.

October 14th. Hearing continued, 10 A.M. to 5 P.M. Adjourned to 21st October, 1931, at 10 A.M.

October 21st. Hearing continued, 10 to 10.15 A.M. Adjourned *sine die* pending Claimant's appeal to Appellate Division.

PROCEDURE FILE A-3278

Application by The Toronto Transportation Commission, under Section 257 of "The Railway Act" (R.S.O., Chapter 224, 1927), for approval of division of its "Church" Route as follows:—

> "Church Route": from Front Street north on Church Street to Asquith Loop, and return.
>
> "Dupont Route": from Christie Street Loop east on Dupont Street to Avenue Road, south on Avenue Road to Bloor Street, east on Bloor Street to Bay Street, and south on Bay Street to the City Hall Loop, namely: Louisa, James and Albert Streets, to Bay Street and return,

and for the approval of the operation of One-Man cars thereon.

February 17th. Application and material filed.

February 18th. Engineer's Report filed.

March 2nd. Hearing, 10.30 A.M.: 10.40 to 11.45 A.M., at Board's Chambers. Judgment reserved.

March 5th. Judgment delivered. Approval granted to operation for period of 90 days from date of Judgment and thereafter until approval either rescinded or amended.

March 5th. Order.

JUDGMENT

This application having come on for Hearing on Monday, the 2nd day of March, 1931, in the presence of I. S. Fairty, K.C., for the Applicant, W. B. Robbins, as representing the Employees; Mr. Tompkins, as representing the Railway Employees' Union, and certain ratepayers opposing the said application, and the City of Toronto not opposing the said application, they having notice thereof.

After hearing the argument, both in favour of and against the approval of the said change, and after considering the question as to whether or not the "One-Man" cars would in any way increase the congestion of traffic near the City Hall Loop, and after considering the financial saving claimed by the Solicitor for the Applicant as likely to be attained, this Board approves of the said division of Church Street route as above suggested and to the operation of One-Man cars of the type now in use on the said Church Street route over the proposed changed routing.

The approval herein given is to go into effect at once and to remain effective for a period of ninety (90) days from the date hereof and thereafter until this approval is either rescinded or amended, the Board reserving to itself full authority, either upon application or of its own volition, to amend or rescind the approval herein given at any time after the expiration of the said ninety (90) days.

(Sgd.) C. R. McKeown,
Chairman.

Toronto, March 5th, 1931.

I agree:
(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

March 5th, 1931.

Order

Upon the application of the Toronto Transportation Commission on the 2nd day of March, 1931, for approval by the Board of the use by the said Commission of one-man cars of an approved type upon the routes hereinafter set out, and upon hearing what was alleged by Counsel for the said Applicant, and by Messrs. Robbins, Tomkins and Gerring representing the Railway Employees' Union, Division 113, and upon hearing what was alleged by certain ratepayers opposing the said application, and the City of Toronto not opposing the said Application, though having duly received notice of the same.

1. This Board doth order and adjudge that cars of any type which have been approved for one-man operation may be operated upon the routes hereinafter set out for a period of ninety days from the date hereof and thereafter until this approval is either rescinded or amended,—

Church Route—from Front Street north on Church Street to Asquith Loop, and return.

Dupont Route—from Christie Street Loop east on Dupont Street to Avenue Road, south on Avenue Road to Bloor Street, east on Bloor Street to Bay Street, and south on Bay Street to the City Hall Loop, namely: Louisa, James and Alberta Streets, to Bay Street and return.

2. And this Board further orders and provides that it may at any time or from time to time hereafter rescind, vary, alter or amend this Order, either upon its own motion or at the request or upon the complaint of any municipal corporation, company or person.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3278a

Application by The Toronto Transportation Commission, under Section 257 of "The Railway Act," and the Board's Act, for amendment of Order of the Board dated the 5th day of March, 1931, changing sub-paragraph (2) of paragraph 1 thereof, as to Dupont route.

November 12th. Application filed.
November 12th. Order.

November 12th, 1931.

ORDER

Upon the application of the Toronto Transportation Commission,

This Board doth order that the Order of the Board, dated the 5th day of March, 1931, in this matter, be amended by striking out sub-paragraph 2 of paragraph 1 and substituting therefor the following:

> Dupont Route—From Christie Street Loop, east on Dupont Street to Davenport Road, south-east on Davenport Road to Bay Street, south on Bay Street to the City Hall Loop, namely, Louisa, James and Albert Streets, to Bay Street and return.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3289

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923," for approval of its By-law No. 3694, enlarging Water Area No. 7.

February 27th. Application and material filed.

March 24th. Hearing, 10.30 to 10.35 A.M., at the Board's Chambers. Plan to be filed. Application granted; Applicant's Solicitor to draft Order.

March 26th. Draft Order filed.

March 26th. Order.

March 24th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and Public Notice of the Hearing of such Application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and no one appearing in opposition to the Application, and it appearing upon the Application that the Area described in the said By-law should be added to Water Area No. 7.

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 Geo. V, and amendments thereto, that the said By-law 3694, intituled "By-law No. 3694. A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the Municipality known as Water Area No. 7, as established by By-law No. 1623, and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and water works in Water Area No. 7 into the area hereinafter described for the benefit of the said Area," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3290

Application by the City of Sudbury, under Section 95, subsections (11) and (12), of "The Public Health Act," *re* grading improvements to Sewage Disposal System.

February 28th. Application and material filed.
April 9th. Approved draft Order filed.
April 9th. Order. April 9th, 1931.

ORDER

Upon the application of the Municipal Corporation of the City of Sudbury for an Order under Section 95 of "The Public Health Act."

Upon reading the Affidavit of Peter Fenton, Esquire, Mayor of the City of Sudbury, the Consent of the Municipal Corporation of the Township of McKim and of W. E. Holditch, and it appearing that the Municipal Corporation of the City of Sudbury is now engaged in having constructed a sewage disposal plant on that part of the north half of Lot No. Seven (7) in the Second Concession of the Township of McKim, lying south and east of the Algoma Branch of the Canadian Pacific Railway, which land was by Order of the Ontario Railway and Municipal Board, dated the 11th of February, A.D. 1931, annexed to the City of Sudbury, and it appearing that it is necessary that the Corporation of the City of Sudbury should remove the rock shoal in Junction Creek in the Township of McKim where same passes through the property of W. E. Golditch of the Township of McKim, being Lot No. Nine (9) in the First and Second Concessions of the Township of McKim, in order to permit the free flow of the effluent from the said sewage disposal plant, now in the City of Sudbury, through Junction Creek in the City of Sudbury and in the said Township of McKim,

This Board orders, under and pursuant to Section 95 of "The Public Health Act," that the said Municipal Corporation of the City of Sudbury be, and the same is hereby granted full power and authority to remove said rock shoal in Junction Creek in the Township of McKim where same passes through the property of W. E. Holditch of the Township of McKim, in order to permit the free flow of the effluent from the said sewage disposal plant, now in the City of Sudbury and in the said Township of McKim.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3309

In the matter of the Petition of John Robertson, and others, under Section 8 of "The Local Improvement Act," against the construction of a sewer on Palmerston Boulevard from College Street to Bloor Street, in the City of Toronto, as a local improvement.

March 7th. Petition filed.

April 1st. Hearing, 10.30 A.M.: 10.40 to 10.50 A.M., at the Board's Chambers. Hearing adjourned (due to Passover) to 10.30 A.M., Thursday, 23rd April, 1931.

April 23rd. Hearing continued, 10.30 A.M. to 12 M.D. Judgment reserved pending consideration by the City Council.

PROCEDURE FILE A-3311

BETWEEN:

A. J. Freiman, Limited,

Appellant,

—and—

The Corporation of the City of Ottawa,

Respondent.

(Assessment Appeal.)
(Land and Buildings—$934,575.00.)

March 7th. Notice of Appeal filed.

March 20th. Subpoena issued to Respondent.

March 26th. Subpoena issued to Appellant.

April 26th. Hearing, 10 A.M. to 1 P.M., Court House, Ottawa. Appeal withdrawn. Settlement arranged between parties.

PROCEDURE FILE A-3338

BETWEEN:

George D. Browne,

Applicant,

—and—

The Carodoc-Ekfrid Telephone Co. Ltd. and George McKenzie (trading as The Coldstream Telephone System),

Respondents.

Application under Sections 93 and 95 of "The Telephone Act" for an Order consenting to the parallelling by The Carodoc-Ekfrid Telephone Co. Ltd. of lines of George McKenzie, for the purpose of furnishing the Applicant with service.

March 19th. Application and material filed.

March 27th. Hearing, 10 to 10.45 A.M., Court House, London. Application dismissed.

April 27th. Report of Board's Telephone Inspector, on inspection of The Coldstream Telephone System, filed.

PROCEDURE FILE A-3361

In the matter of "The Railway and Municipal Board Act",
And in the matter of Section 257 of "The Railway Act."

BETWEEN:

The Hamilton Street Railway Company,

Applicant,

—and—

The Municipal Corporation of the City of Hamilton,

Respondent.

(One-Man Cars.)

April 7th. Application and material filed.

April 16th. Hearing, 10 A.M. to 4 P.M., Council Chamber, City of Hamilton. Judgment reserved.

April 24th. Judgment delivered. Application granted.

May 9th. Approved draft Order filed.

May 11th. Order issued.

REASONS FOR JUDGMENT

This application came before the Ontario Railway and Municipal Board at the City of Hamilton on Thursday, the 16th day of April, 1931.

It was given in evidence that certain routes of the Hamilton Street Railway System now enjoy the privilege of running one-man cars over the routes at all hours of the day and night and that on other routes one-man cars are used, with the approval of this Board, during certain hours of the day and on certain days. It is not intended that this Order shall in any way interfere with the rights to run one-man cars on any of the routes or during any hours of the day or upon any days whereon or wherein the running of one-man cars has been heretofore approved by this Board and the present Judgment is for the purpose of amplifying or adding to orders heretofore made.

The routes of the Hamilton Street Railway System now being operated by two-man cars are: the Aberdeen and C.N.R. route; the James South and Burlington route; and Belt Line route; all other routes having heretofore been granted the privilege of operating with one-man cars.

The different questions to be considered by the Board in arriving at a conclusion in connection with this application are:

1st. The ability of the Railway System to carry on as it is now carrying on with two-man cars and at the same time pay expenses and give to the shareholders of the said Company a reasonable return for the money actually invested in the System.

2nd. The question as to whether or not the introduction of a one-man car on the more frequented streets of Hamilton would cause a materially increased congestion in the traffic and therefore interfere with the business affairs of the City.

3rd. The situation as it would present itself if a number of the employees of the Hamilton Street Railway system were suddenly thrown out of employment by the adoption of a one-man car upon those routes now being operated by two-man cars.

The Board has considered the first point and is rather of the opinion that with the increased motor traffic from year to year something should be done to enable the Street Railway System in Hamilton to carry on in a reasonably successful manner financially without the necessity of increasing the rates now charged, and, as it has been intimated by the evidence of the Manager of the Hamilton Street Railway System that the exchange of a two-man car as at present operated for a one-man car would mean a saving of in or about One Hundred Thousand Dollars ($100,000.00) a year to the Company, this situation naturally has some influence upon the opinion of the Board in connection with this application.

Then, as to the second point suggested, that is, the additional congestion in traffic. The evidence submitted to the Board is that, while the loading of a one-man car requires a little more time than the loading of a two-man car, that additional time is offset by the fact that the one-car, will discharge its load rather more speedily than the two-man car, and if we are to accept this evidence—and we have no evidence to the contrary—then the average congestion caused by the one-man car would not be more than the average congestion caused by the two-man car, the loss of time in loading the one-man car being balanced by the time gained in unloading.

There is, however, the very serious point as to the employment of the men now engaged in connection with the Hamilton Street Railway System, and from the evidence submitted we are given to understand that if the change from a two-man car to a one-man car were extended over a reasonable period the men now employed would be reduced in number so gradually, that there would be few, if any, dismissals, the employment of the men being absorbed into either other work in connection with the Company or by being called upon to take the place of men who die or from one cause or another retire, the only difference being that new men would not be employed in the meantime.

The routes now being operated by two-man cars are:

1. The Aberdeen and C.N.R. route, hereinafter known as the "Aberdeen route," which said route commences at Aberdeen Avenue, to almost the city limits; running easterly along Aberdeen Avenue, northerly to Herkimer Street, easterly to James Street, northerly to Stewart Street, and westerly along Stewart Street.

2. The James South and Burlington line, hereinafter known as the "Burlington line," which starts at the corner of Barton and Kenilworth, running northerly to Burlington Street, westerly on Burlington Street to James Street, southerly on James Street to Herkimer Street, westerly on Herkimer Street to Locke Street; northerly on Locke Street to Main Street, northerly and westerly on Main Street to Market Street, thence northerly on Market Street to King Street, and then easterly on King Street, northerly on James Street to Burlington Street and out Burlington Street to the corner of Kenilworth.

3. The Belt Line route, described as running easterly from the corner of Gore Park and King Street to Sherman, south on Sherman to Main, easterly on Main Street to Kenilworth, northerly on Kenilworth to Barton Street, westerly on Barton Street to James Street, southerly on James Street to the corner of the Gore Park and King Street.

Of the three lines above referred to now being operated by two-man cars the greater part of the traffic appears to be carried by the Belt Line route; the next greatest amount of traffic is carried by the Burlington route, and the least of the three by the route known as the "Aberdeen route."

With a desire to as much as possible place the Hamilton Street Railway System in a proper and paying financial position, and with a desire to interfere as little as possible with the men who are depending upon this system for their livelihood, it has been decided that the application of the Hamilton Street Railway Company shall be granted on the following conditions:—

Service by one-man cars to commence on the 1st day of June, 1931, in so far as said service applies to what is known as the "Aberdeen route,"

Service of a one-man car may be commenced on the 1st day of September, 1931, on that route known as the "Burlington route,"

And that the balance of the said system, viz.: the "Belt Line route" may be operated by one-man cars, commencing on the 2nd day of January, 1932.

(Sgd.) C. R. McKeown,
Chairman.

Toronto, April 24th, 1931.

I agree:
(Sgd.) A. B. Ingram,
Vice-Chairman.

April 24th, 1931.

ORDER

Upon the application of the above-named Applicant, at the Sittings of the Board held on the 16th day of April, 1931, at Hamilton, in the presence of Counsel for the Applicant and Respondent, upon hearing the evidence adduced and upon hearing Counsel for all parties.

1. The Board doth hereby approve of and permit the Applicant, on and after the 1st day of June, 1931, to operate at all times upon the route known as the "Aberdeen and Canadian National Railway route," street railway cars operated by one employee, and all street railway cars in service on such route thereafter may be so operated.

2. And the Board doth hereby further approve of and permit the Applicant, on and after the 1st day of September, 1931, to operate at all times upon the route known as the "James Street South and Burlington route," street railway cars operated by one employee, and all street railway cars in service on such route thereafter may be so operated.

3. And the Board doth hereby further approve of and permit the Applicant, on and after the 2nd day of January, 1932, to operate at all times upon the route known as the "Belt Line Route," street railway cars operated by one employee, and all street railway cars in service on such route thereafter may be so operated.

4. And the Board doth hereby declare that the provisions of this Order shall in no way interfere with the right of the Applicant to operate street railway cars operated by one employee upon the routes and in the manner set forth in an Order of the Board, dated March 27th, 1929, and doth hereby declare that the true intent of this Order and the said Order of March 27th, 1929, is that on and after the 2nd day of January, 1932, every street railway car in service throughout the street railway system of the Applicant, may be operated by and in charge of one employee.

5. And the Board doth further order that the Applicant shall pay all fees payable in respect of this Order.

(Sgd.) C. R. McKeown,
Chairman.

(Seal)

Procedure File A-3362

In the matter of the Application of the Municipal Corporation of the Township of South Monaghan, for authority to provide by By-law that payment of the debentures to meet the cost of establishing The South Monaghan Municipal Telephone System be extended over a period of twenty years.

April 8th. Application filed.

April 17th. Hearing, 10.45 a.m., Council Chamber, Port Hope. (Chairman authorized under Section 8, Chapter 225, R.S.O.)

April 23rd. Report of Chairman filed and adopted.

April 23rd. Order.

Report

The undersigned, pursuant to appointment, attended at Port Hope on April 17th, 1931, for the purpose of hearing this application, the Applicant being represented by John Willan, Chairman, George Anderson and Charles Fisher, Commissioners, there being no one opposing.

Evidence was submitted to the effect that a copy of the Notice of Appointment had been mailed to each subscriber to the telephone system of the Applicant and that a petition (a copy of which is attached hereto) had been signed by a majority of the subscribers praying that the period for repayment of the cost of establishing the said system be extended over twenty years.

In view of the foregoing and upon reading the report of the Board's Inspector of Telephone Service as to the character of the construction and its probable durability, it is recommended that this application be granted.

(Sgd.) C. R. McKeown,
Chairman.

Toronto, April 23rd, 1931.

Approved as the basis of the Board's Order.

Procedure File A-3372

Application by the Township of Gloucester, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 11 (1931) regulating and controlling the location, erection and use of buildings and the use of land for certain purposes within the area described in the By-law—(Lots shown on plans of subdivision described as "Gateville" and "Smith's Crossing").

April 13th. Application and material filed.

May 8th. Hearing, pursuant to Appointment, 10 to 10.30 a.m.. Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

May 11th. Report of Mr. Commissioner Ellis filed and adopted. Application granted.

May 11th. Order.

Report of Mr. Commissioner Ellis

Pursuant to Appointment I heard this application (being duly authorized under Section 8, Chapter 225, R.S.O., 1927), at the Court House, in the City of Ottawa, on the 8th instant.

The proof of mailing of Notice of the application was given.

A Petition, signed by 47 property owners out of 69, in favour of the application was filed. The only opposition was by one property owner, Nelson Grayburn, who desired to erect some very small houses which he would be unable to do if the By-law were approved, and which would not be in keeping with the established character of the area and would result in the deterioration of the same.

I recommend that the By-law be approved.

Respectfully submitted,

(Sgd.) J. A. Ellis,
Commissioner.

Toronto, May 11th, 1931.

Adopted as the basis of the Board's Order:

(Sgd.) C. R. McKeown,
Chairman.

(Sgd.) A. B. Ingram,
Vice-Chairman.

May 11th, 1931.

ORDER

Upon the application of the said Corporation, and Mr. Commissioner Ellis (duly authorized under Section 8, Chapter 225, R.S.O., 1927), having, pursuant to Appointment, at the Court House, in the City of Ottawa, heard such Application, and upon consideration of the Report of Mr. Commissioner Ellis filed this day and adopted as the basis of this Order,

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 11 of 1931, intituled "Corporation of the Township of Gloucester By-law No. 11 of 1931. A By-law of the Corporation of the Township of Gloucester regulating and controlling the location, erection and use of buildings and the use of land for certain purposes within a certain area in the Township of Gloucester herein defined," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3379

In the matter of the Petition of J. C. Bergeron, and others, under Section 517 of "The Municipal Act," for the formation of a portion of the Township of Earlton (District of Temiskaming), (490 acres) into a Police Village.

April 15th. Petition filed.
July 25th. Draft Order filed.
July 30th. Order issued.

July 30th, 1931.

ORDER

Upon the application of the above-mentioned Petitioners for the erection of the locality hereafter described into a Police Village, to be called "The Police Village of Earlton," upon reading the Petition signed by a majority of the freeholders of the locality hereinafter described whose names are entered on the last revised assessment roll, and by a sufficient number of the resident tenants of the said locality whose names are entered on such roll to make up with such freeholders a majority of the whole number of free-holders and tenants whose names are so entered, upon reading the Affidavit of J. O. Messier, and the other material filed herein, and it appearing that the said locality is in the organized Township of Armstrong, in the Provisional Judicial District of Temiskaming, and contains a population of not less than one hundred and fifty (150) and has an area of not more than five hundred (500) acres, and no one opposing the said Application as appears by Certificates of Frank A. Carter, Clerk of the said Township of Armstrong, filed,

It is ordered, that the said locality, namely:

All and singular that certain parcel or tract of land and premises situate, lying and being in the Township of Armstrong, in the District of Temiskaming, and the Province of Ontario, containing by admeasurement Four Hundred and Ninety (490) acres, be the same more or less and being composed of

(1st) The north half (½) of Lot Six (6), Concession Three (3), to East boundary of the Temiskaming and Northern Ontario Railway;

(2nd) The south half (½) of Lot Six (6), Concession Four (4), to East boundary of the Temiskaming and Northern Ontario Railway;

(3rd) The east part of the north half (½) of Lot Seven (7), Concession Three (3); and

(4th) The South half (½) of Lot Seven (7), Concession Four (4).

Be and the same is hereby erected into a Police Village which shall bear the name of "The Police Village of Earlton."

2. And it is further ordered that on the Seventeenth (17) day of August, 1931, Hector Dupuis of the said Police Village of Earlton, who is hereby named and appointed the Returning Officer for holding the first election of Trustees of said Police Village, do hold the nomination for such first election of Trustees at the Council Chambers In the said Police Village of Earlton, at the hour of One (1) P.M., of which nomination he shall give One (1) week's notice, posted up in Three (3) conspicuous places in the Police Village, and he shall preside at such nomination, or in case of his absence the electors shall choose from among themselves a Chairman to preside who shall have all the powers of a Returning Officer, and the polling for the said election, if necessary, shall be held on the 31st day of August, 1931, between the hours of Eight (8) A.M. and Five (5) P.M., and the Returning Officer or Chairman shall at the close of the nomination (which shall close at 2 P.M. on the said 17th day of August, 1931) publicly announce the place at which such polling shall take place, which shall be at the said Council Chambers in the said Police Village.

3. And it is further ordered that the first meeting of the trustees shall take place and be held at the said Council Chambers in the said Police Village of Earlton on the Seventh (7) day of September, 1931, at the hour of Eight (8) P.M.

4. And it is further ordered that this Order shall take effect on and from the 30th day of July, A.D. 1931, (the date hereof).

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Seal)

PROCEDURE FILE A-3382

In the matter of the Petition of Josephine Small, and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on Elizabeth Street, between Albert and Louisa Streets, in the City of Toronto.

April 16th. Petition filed.

May 12th. Hearing, 10.30 to 11.30 A.M., at the Board's Chambers. Hearing concluded. Board suggests that the City Counsel consider paying 33⅓% of Frontage Special Assessment rate. With that alteration the Board would approve the work.

June 12th. Order settled and issued.

May 12th, 1931.

ORDER

The Petion of Josephine Small and others, under Section 8 of "The Local Improvement Act," being R.S.O., 1927, Chapter 235, to this Board for relief against the aforesaid local improvement work which the Corporation of the City of Toronto proposes to undertake, having come on for Hearing this day before this Board in the presence of the Petitioners and their Counsel and of Counsel for the said Corporation, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented before the Board,

1. The Board orders, under and in pursuance of the said Statute that there be included in the said Corporation's portion of the cost of the said work one-third of the portion now proposed to be charged to the abutting owners, and that subject to such change the said Corporation be at liberty to proceed with the said work.

2. And the Board further orders that except as aforesaid the said Petition be and the same is hereby dismissed.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3383

In the matter of the Petition of Donald MacDonald and others, under Section 8 of "The Local Improvement Act," against the construction of an asphalt pavement on Albert Street, between Bay and Elizabeth Streets, in the City of Toronto.

April 16th. Petition filed.

May 12th. Hearing, 10.30 a.m.: 11.30 a.m. to 12 m.d., at Board's Chambers. Hearing concluded. City to pay one-third of property owners' share of cost.

June 12th. Order settled and issued.

May 12th, 1931.

Order

The Petition of Donald Macdonald and others, under Section 8 of "The Local Improvement Act," being R.S.O., 1927, Chapter 235, to this Board for relief against the aforesaid local improvement work, which the Corporation of the City of Toronto proposes to undertake, having come on for Hearing this day before this Board, in the presence of the Petitioners and their Counsel and of Counsel for the said Corporation, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented before the Board,

1. The Board orders, under and in pursuance of the said Statute, that there be included in the said Corporation's portion of the cost of the said work one-third of the portion now proposed to be charged to the abutting owners, and that subject to such change the said Corporation be at liberty to proceed with the said work.

2. And the Board further orders that except as aforesaid the said petition be and the same is hereby dismissed.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3383a

In the matter of the Petition of Donald MacDonald and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk, etc., on Albert Street (north side), between Bay and Chestnut Streets, in the City of Toronto.

April 16th. Petition filed.

May 12th. Hearing 10.30 A.M.: 11.30 A.M. to 12 M.D., at Board's Chambers. Hearing concluded. City to pay one-third of frontagers' share of cost.

June 12th. Order settled and issued.

May 12th, 1931.

ORDER

The Petition of Donald Macdonald and others, under Section 8 of "The Local Improvement Act," being R.S.O., 1927, Chapter 235, to this Board for relief against the aforesaid local improvement work which the Corporation of the City of Toronto proposes to undertake, having come on for Hearing this day before this Board in the presence of the Petitioners and their Counsel and of Counsel for the said Corporation, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented before the Board.

1. The Board orders, under and in pursuance of the said Statute that there be included in the said Corporation's portion of the cost of the said work one-third of the portion now proposed to be charged to the abutting owners, and that subject to such change the said Corporation be at liberty to proceed with the said work.

2. And the Board further orders that except as aforesaid the said Petition be and the same is hereby dismissed.

(Sgd.) C. R. MCKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3387

In the matter of the Petition of the Estate of J. Singer, and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk and roadway on Elizabeth Street, between Albert and Dundas Streets, in the City of Toronto.

April 17th. Petition filed.

May 12th. Hearing, 10.30 to 11.30 A.M., at the Board's Chambers. Hearing concluded. Board suggests that the City Council consider paying 33⅓% of Frontage Special Assessment rate; with that alteration the Board would approve work.

June 12th. Order settled and issued.

May 12th, 1931.

ORDER

The Petition of the Estate of J. Singer and others, under Section 8 of "The Local Improvement Act," being R.S.O., 1927, Chapter 235, to this Board for relief against the aforesaid local improvement work which the Corporation of the City of Toronto proposes to undertake, having come on for Hearing this day before this Board in the presence of the Petitioners and their Counsel and of Counsel for the said Corporation, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented before the Board,

1. The Board orders, under and in pursuance of the said Statute that there be included in the said Corporation's portion of the cost of the said work one-third of the portion now proposed to be charged to the abutting owners, and

that subject to such change the said Corporation be at liberty to proceed with the said work.

2. And the Board further orders that except as aforesaid the said Petition be and the same is hereby dismissed.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3388

Application by the City of Toronto, under subsection (2b) of Section 398 of "The Municipal Act," for approval of its By-law 13121, being a By-law to repeal By-laws Nos. 4469, 6109 and 9874 in so far as they prevent the erection of seven stores with apartments above at the north-east corner of Bloor Street and Walmer Road.

April 20th. Application and material filed.

May 19th. Hearing, 10.30 a.m.: 11.05 to 11.20 a.m., at the Board's Chambers. Hearing adjourned to 10.30 a.m., 9th June, 1931.

June 9th. Hearing continued, 10.30 a.m.: 10.49 to 10.50 a.m. Adjourned to 10.30 a.m., September 15th, 1931.

September 15th. Hearing continued, 10.30 a.m.: 10.55 to 11.05 a.m. By-law 13121 approved. City Solicitor to draft Order.

September 18th. Draft Order filed.

September 21st. Order.

September 15th, 1931.

Order

The application of the Corporation of the City of Toronto for approval of the above-mentioned By-law pursuant to Section 398, subsection (2b) of "The Municipal Act," being R.S.O., Chapter 233, having come on by appointment for Hearing before this Board on the 19th day of May, 1931, the 9th day of June, 1931, and on this day, in the presence of certain property owners affected or their representatives, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board, having heard read the said By-law and the other material filed and what was alleged by all persons before the Board.

The Board orders, under and pursuant to the said section 398, subsection (2b) of the said Municipal Act that By-law No. 13121 of the Corporation of the City of Toronto, being intituled "A By-law to repeal By-laws Nos. 4469, 6109 and 9874 in so far as they prevent the erection of seven stores with apartments above at the north-east corner of Bloor Street and Walmer Road," be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3400

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 13130, restricting, to detached private residences only, land and buildings on Bracken Avenue.

April 21st. Application and material filed.

May 27th. Hearing, 10.30 A.M.: 11.15 to 11.20 A.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 2nd. Draft Order filed.

June 2nd. Order.

May 27th, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O., 1927, Chapter 233, for approval of its above-mentioned By-law having come on by appointment for Hearing this day in the presence of one of the property owners affected, proof having been filed of due service of notices pursuant to the aforesaid Statute and to the directions of this Board, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented, and it appearing that there was no opposition to the said application.

The Board orders, under and in pursuance of the above-mentioned Statute, that By-law No. 13130 of the Corporation of the City of Toronto, being intituled "No. 13130. A By-law to restrict to use for detached private residences only, land and buildings on Bracken Avenue," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3402

Application by the Township of North York, under Section 6 of "The Local Improvement Act," for approval of the widening of Yonge Street, from Old Yonge Street to 50th Avenue East, as a local improvement.

April 22nd. Application and material filed.

May 7th. Hearing, 10.30 to 10.40 A.M., at the Board's Chambers. At request of Counsel, Hearing adjourned to 10.30 A.M., 13th May, 1931.

May 13th. Hearing continued, 10.30 to 10.45 A.M. Application withdrawn.

PROCEDURE FILE A-3404

Application by the Corporation of the Township of Ekfrid, under Section 469, subsection (9) of "The Municipal Act," for relief from its obligation to rebuild "Robinson" Bridge, over Creek on River Road through the south half of Lot 3, Fifth Range south of "Longwoods" Road, in the said Township.

April 22nd. Application filed. (See also P.F. 8636).

October 15th. Hearing, 1 to 4 P.M., Town Hall, Village of Glencoe. Judgment reserved.

December 7th. At request of Counsel disposition of Matter to stand until after 1st January, 1932.

PROCEDURE FILE A-3408

Application by J. Y. Ormsby, Owner, under "The Planning and Development Act," for approval of plan of Lots 3 to 7 (both inclusive) and part Lot 2, Registered Plan 1860 (York), Village of Forest Hill, County of York (lying on east side of Spadina Road, south of Eglinton Avenue).

April 23rd. Application filed.

May 14th. Hearing, 10.30 A.M.: 11.30 to 11.45 A.M., at the Board's Chambers. Hearing concluded; Plan approved.

August 19th. Plan certified.

PROCEDURE FILE A-3409

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 13103, prohibiting the erection of buildings on land on Golfdale Road with a lesser frontage than fifty feet.

April 24th. Application and material filed.

May 27th. Hearing, 10.30 A.M.: 11.20 to 11.30 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 2nd. Draft Order filed.

June 2nd. Order.

May 27th, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, for approval of its above-mentioned By-law having come on by appointment for Hearing this day in the presence of one of the property owners affected, proof having been filed of due service of all notices pursuant to the said Statute and to the directions of this Board, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented,

The Board orders, under and in pursuance of the above mentioned Statute, that By-law No. 13103 of the Corporation of the City of Toronto being intituled "No. 13103. A By-law to prohibit the erection of buildings on land on Golfdale Road with a lesser frontage than 50 feet," be and the same is hereby approved.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

PROCEDURE FILE A-3417

In the matter of the Petition of T. F. Firth & Sons, Limited, and others, under Section 8 of "The Local Improvement Act," against the construction of an asphalt pavement with curbs, gutters and drains, on Third Street, from Birmingham Street to 165 feet north thereof, in the Town of New Toronto.

April 29th. Petition filed.

May 18th. Hearing, 10.30 to 11.45 A.M., at Board's Chambers. Hearing concluded. If work proceeds flankage allowance to be increased to 75 feet.

May 19th. Order issued.

May 18th, 1931.

ORDER

Upon the application of the above-named Petitioners in the presence of the Petitioners and Respondents and upon hearing Counsel for the Petitioners and Respondents:

1. This Board orders that as to the southerly 150 feet of the Block marked "Reserved" situated on the west side of Third Street in the said Town, the flankage allowance be increased to 75 feet with respect to the said proposed work.

2. And the Board makes no order as to costs except that $10.00 for law stamp, the Board's tariff fee on Order herein be paid by the Corporation of the Town of New Toronto which may be added to the cost of the proposed work.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3419

Application by the Township of York, under Section 12 of "The Planning and Development Act" (as amended in 1930), for approval of its By-law No. 10856, closing a portion of Times Road, from Roselawn Avenue to the Belt Line Railway, (Plan 1775).

April 29th. Application and material filed.

May 14th. Hearing, 10.30 to 11.30 a.m., at the Board's Chambers. Hearing concluded. Judgment reserved.

May 19th. Judgment. Application granted.

May 30th. Approved draft Order filed.

May 30th. Order.

May 19th, 1931.

Order

Upon the application of the Corporation of the Township of York, made May 14th, 1931, for approval of its By-law No. 10856, upon reading the Declarations of W. F. Spence and James McGuire, filed, and upon hearing the evidence adduced and what was alleged by Counsel for the Applicant and for the City of Toronto, and judgment upon the application having been reserved until this day,

1. The Board orders, under and in pursuance of the provisions of Section 12 of "The Planning and Development Act," as amended, that the said By-law No. 10856 of the Corporation of the Township of York, and the closing of the portion of Times Road as therein provided, be and the same is hereby approved.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

Procedure File A-3422

Application by The Essex Border Utilities Commission, under "The Consolidated Essex Border Utilities Act, 1929," for consent to the passing of a By-law to issue debentures in the sum of $26,422.69 to complete the Metropolitan General Hospital.

May 1st. Application and material filed.

May 29th. Hearing, 9 to 10 a.m., at the Court House, Sandwich. Application granted.

June 1st. Draft Order filed.

June 2nd. Order issued.

May 29th, 1931.

ORDER

Upon the application of The Essex Border Utilities Commission made to this Board at the Town of Sandwich on the 29th day of May, 1931, under Section 10 of "The Consolidated Essex Border Utilities Act, 1929," upon hearing read the proceedings herein and the evidence adduced, it appearing that the Municipalities have been served with the copy of the Appointment herein, and upon hearing what was alleged on behalf of the Applicant, and no one appearing in opposition thereto,

The Board, under and in pursuance of Section 10 of "The Consolidated Essex Border Utilities Act, 1929," and amendments thereto, consents to the issuing by the Essex Border Utilities Commission of the debentures in the sum of Twenty-six Thousand, Four Hundred and Twenty-two Dollars and Sixty-nine Cents ($26,422.69) under provisional by-law No. 80 of the said Commission, for the purpose of completing the Metropolitan General Hospital,

And the Board makes no Order as to costs except that the Commission shall pay $15.00 for Law Stamps on this Order.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3426

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law No. 13148, restricting to detached private residences only land and buildings on Christie Street, between Tyrrel Avenue and St. Clair Avenue.

May 2nd. Application and material filed.

June 6th. Objection by Bank of Toronto filed.

June 9th. Hearing, 10.30 A.M.: 10.50 to 11 A.M. By-law to be amended to include Lots fronting on St. Clair Avenue. Hearing adjourned to September 15th, 1931, at 10.30 A.M.

July 13th. Amending By-law No. 13291 filed.

September 15th. Hearing continued, 10.30 A.M.: 10.40 to 10.55 A.M. By-law 13148 approved as amended by 13291.

September 18th. Draft Order filed.

September 21st. Order issued.

September 15th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval of its By-law No. 13148, pursuant to Section 398 of "The Municipal Act," being R.S.O., 1927, Chapter 233, having come on for Hearing by appointment before this Board on the 9th day of June, 1931, and on this day in the presence of certain property owners affected or their representatives, proof having been filed of due service of all notices pursuant to the said Statute and the directions of the Board, and By-law No. 13291 of the said Corporation passed on the 30th day of June, 1931, to amend the aforesaid By-law No. 13148 having been duly laid before this Board, the Board having heard read the said By-laws and the other material filed, and having heard what was alleged by all persons before the Board.

The Board orders, under and pursuant to the said Section 398, subsection 2 (b), of "The Municipal Act," that By-law No. 13148, being intituled "A By-law to restrict to use for detached private residences only land and buildings on Christie Street, from Tyrrel Avenue to St. Clair Avenue," as amended by By-law No. 13291, being intituled "A By-law to amend By-law No. 13148 respecting the use of land and buildings on Christie Street from Tyrrel Avenue to St. Clair Avenue," and the said By-law No. 13291 be and the same are hereby approved.

(Sgd.) C. R. McKeown.
(Seal) *Chairman,*

PROCEDURE FILE A-3429

In the matter of Section 60 of "The Railway and Municipal Board Act" (Chapter 225, R.S.O., 1927),

And in the matter of the mediation by the Board of the matters in dispute between The London Street Railway and its Employees regarding proposed reduction of Wages of the Employees—(Five cents per hour, effective May 1st, 1931).

May 1st. Conference in London, by all Members of the Board with the Company and representatives of the International Railway Union. The Board's suggestion of cut of two cents per hour to be considered. Both parties to advise the Board if suggested cut accepted. (See Memorandum of Vice-Chairman.)

May 6th. Board's suggestion accepted by International Railway Union.

Toronto, May 2nd, 1931.

RE LONDON STREET RAILWAY MEDIATION

Memo.

The full Board pursuant to appointment conferred with Messrs. Ivey and Tait, representing the Railway Company. Mr. John Colbert and Committee representing the International Railway Union, in the directors' room of the Railway Company, in London, and after a discussion lasting over three hours, the representatives of the men agreed to submit the suggestion made by the Chairman to the men, namely, whether or not the members of the Local Union would accept a cut of two cents an hour for the month of May. The Board also requested the representatives of the Company to submit the same proposition to their directors, both parties to notify the Board if the suggested cut in wages were acceptable.

In the meantime no further appointment has been arranged.

Dated at Toronto this 2nd day of May, 1931.

(Sgd.) A. B. Ingram,
Vice-Chairman.

PROCEDURE FILE A-3436

In the matter of the Petition of William Cumming, and others, under Section 8 of "The Local Improvement Act," against the construction of certain portion of pavement, with curb and gutter, on Bayfield Street, between Wellington Street and Dalton Street, in the Town of Barrie.

May 7th. Petition filed.

May 15th. Hearing, 10.30 to 11.30 A.M., Police Court Chambers, Town of Barrie. Petition refused.

June 1st. Draft Order filed.

June 2nd. Order issued.

May 15th, 1931.

ORDER

Pursuant to the Petition of the said William Cumming, and others, against the construction of a certain portion of pavement with curb and gutter, on Bayfield Street, between Wellington Street and Dalton Street, in the Town of Barrie,

And upon hearing what was alleged by Counsel for the Petitioners, and Counsel for the Corporation of the Town of Barrie,

The Board orders that the said Petition be, and the same is hereby dismissed.

The Board further orders that the Corporation of the Town of Barrie shall pay the sum of Fifteen Dollars ($15.00) for Law Stamps on this Order, which said fee may be added to the cost of the work above referred to.

(Sgd.) C. R. McKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3437

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 7081, restricting the use of land and the erection and use of buildings in the area defined in the By-law—Marlborough Avenue and other streets—for any purpose other than that of a private dwelling.

May 7th. Application and material filed.

June 5th. Hearing, 10 to 10.15 A.M., at Court House, Ottawa. Application granted.

June 9th. Draft Order filed.

June 9th. Order issued.

June 5th, 1931.

ORDER

The application of the Corporation of the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its By-law No. 7081 intituled "By-law No. 7081. A By-law of the Corporation of the City of Ottawa prohibiting the use of land and the erection and use of buildings within the area herein defined for any purpose other than that of a private dwelling," having come on to be heard before a special sittings of the Board held at the City of Ottawa pursuant to Appointment on Friday, the 5th day of June, A.D. 1931, at the hour of ten o'clock in the forenoon (Daylight Saving Time), at the Court House, in the said City, upon reading a certified copy of the said By-law and it appearing that copies thereof and of the Appointment for the said Hearing had been duly served upon the owners of the property affected by the said By-law in accordance with the direction of the Board, and no one opposing the enactment of the said By-law.

1. The Board doth hereby approve of the said By-law.

2. The Board directs that the Applicant Corporation shall affix Law Stamps to a value of $15.00 to this Order in payment of the Board's tariff fee upon this Order.

(Sgd.) A. B. INGRAM,
(Seal) *Vice-Chairman.*

PROCEDURE FILE A-3440

Application by Henry Marentette, Owner, under "The Planning and Development Act," for approval of plan of alteration and amendment of part Registered Plan 1338, Township Sandwich West, County of Essex, and being subdivision of part Farm Lot 66, Concession III of the said Township.

May 8th. Application and material filed.

May 29th. Hearing, 10 to 10.50 A.M., Court House, Sandwich. Adjourned to June 15th, 1931, at 10.30 A.M., at Board's Chambers, Toronto.

June 15th. Hearing continued, 10.30 A.M.; 11.30 A.M. to 3.05 P.M. Hearing concluded. Application refused. (*Viva Voce* Judgment in Banc.). (See Reporter's Notes.) Township to pay Applicant $50.00 costs (Counsel fee) (and Railway fares for two witnesses).

PROCEDURE FILE A-3441

In the matter of the Petition of A. T. Northrup Estate, and others, under Section 8 of "The Local Improvement Act," against the construction of a pavement on North Front Street, from Moira Street East to the Canadian National Railway right-of-way, in the City of Belleville.

May 9th. Petition (in two parts) filed.

June 12th. Hearing, 11.30 to 12.30 A.M., Council Chamber, Belleville. Total cost of work divided equally—Fifty per cent. by the Corporation and fifty per cent. by the property owners.

July 30th. Order issued.

June 12th, 1931.

ORDER

This Petition having come to be heard this day before the Board, pursuant to Appointment, in the Council Chamber, in the City of Belleville, and upon hearing what was alleged by Council for the said Petitioners and for the Corporation of the City of Belleville,

The Board orders, under and in pursuance of the provisions of Section 8 of "The Local Improvement Act," that the entire cost of the work be divided, fifty per cent. to be paid by the Corporation of the City of Belleville and fifty per cent. by the property owners affected.

And the Board orders that its tariff fee of $15.00 for Law Stamps on this Order be paid by the Corporation of the City of Belleville, which amount may be added to the cost of the work.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3442

In the matter of the Application of the City of St. Thomas for approval, under Section 399 (2) of "The Municipal Act," of its By-law No. 2860, providing for an expenditure of $130,000.00 for the extension and improvement of its Gas Works and Gas Plant.

May 12th. Application and material filed.

May 15th. Petition and letters of objection filed.

May 29th. Petition in favour of Application filed.

June 1st. Hearing, 1 to 5 P.M., Council Chamber, City of St. Thomas. Judgment reserved.

June 5th. Argument on behalf of City and Ratepayers' Association filed.

June 10th. Judgment delivered. Board suggests that matter be left in hands of those entitled to vote on money by-laws.

JUDGMENT

This application came on for Hearing before the Ontario Railway and Municipal Board—all members being present—at the City of St. Thomas, on Monday the 1st day of June, 1931, at one o'clock in the afternoon, at the Council Chamber, City Hall.

W. S. McKay, Esq., appeared for the City of St. Thomas.

Colin Leitch, K.C., for the Ratepayers Association, opposed the application.

In or about the year 1905 the City of St. Thomas acquired the Gas Plant now being used by the said City for the purpose of supplying gas to certain users in the said City of St. Thomas. The system then in vogue was what was known as a "Horizontal Retort" system and service has been rendered to the City of St. Thomas from that time up to the present, the revenue derived therefrom having been sufficient each year to pay all expenses connected with the Gas Plant and the running thereof, and to provide a certain surplus which was annually paid into the treasury of the said City of St. Thomas.

There appears to have been four separate boilers, numbered 1, 2, 3 and 4, in connection with this system, and from the evidence before this Board a pressure of eighty-five pounds should be kept up to supply the necessary demand for gas. The evidence of the engineer sent to St. Thomas from the Department of Labour for the Province of Ontario was to the effect that boiler No. 4 might well be used up to a pressure of one hundred pounds but that boilers Nos. 1, 2 and 3 could not be safely used beyond forty pounds.

Under these circumstances the Council of the City of St. Thomas very properly came to the conclusion that some improvement or repair or alteration in connection with this plant is necessary and should be attended to at once if all danger is to be eliminated.

Having reached this conclusion the Council then took the further step of inquiring as to what would be the best system to adopt to supply the City of St. Thomas with gas at a more reasonable price than heretofore and with a modernized system, and came to the conclusion that it would be advisable and probably in the end economical to modernize the whole system by the expenditure of $130,000.00.

The evidence of the engineer employed by the City of St. Thomas was that the plant could be placed in a position somewhat similar to the position in which it had been for many years, and the danger could be eliminated and boilers of the old Horizontal Retort type again instituted at a cost of from

$8,000.00 to $10,000.00. At the same time he, with the other engineers, would advise the people of St. Thomas under the circumstances to modernize the system and to expend thereon $130,000.00 for that purpose.

This is a money by-law and naturally requires the assent of the electors of the municipality to put it into effect, but there are circumstances under which the assent of the electors may be dispensed with and in its place the vote of three-fourths of all the members of the Council of the Municipality and the approval of the Ontario Railway and Municipal Board secured.

The dispensing with the vote of the electors, however, and substituting therefor the approval of the Ontario Railway and Municipal Board and the three-fourths vote of the Council can only be done under Section 399 (2) when the expenditure proposed (in this case $130,000.00) is necessary.

This Board is, however, of the opinion, while the application is properly made and jurisdiction in this matter certainly rests with the Board, from the evidence it is necessary to expend from $8,000.00 to $10,000.00 in eliminating the danger and placing the Gas Plant of St. Thomas in a proper workable condition, but although it may be desirable and economical and in the long run very much the best from an engineering standpoint, it is hardly possible for the Board to say that the expenditure under all the circumstances of $130,000.00 is necessary.

The Board would therefore suggest that the matter be left in the hands of those entitled to vote on money by-laws in the City of St. Thomas if the Council still wishes to press forward the expenditure of $130,000.00 for this undertaking.

Did the Council see fit to pass a by-law for the expenditure of from $8,000.00 to $10,000.00, as intimated by the engineer as sufficient to place the plant in good working order and eliminate the danger that now exists, from the evidence submitted this Board would be inclined at once to give its approval, but the Board cannot see that the expenditure of $130,000.00, though possibly desirable and in the end economical, is at the present time a necessity.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Toronto, June 10th, 1931.

I agree:
(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Procedure File A-3455

In the matter of the Application of the Toronto Transportation Commission, pursuant to R.S.O. 1927, Chapter 224, Section 257, for the approval by the Board of the operation by said Commission of One-man Cars of an approved type upon certain routes of its railway.

May 16th. Application filed.
June 5th. Draft Order filed.
June 8th. Order issued.

June 4th, 1931.

ORDER

Upon the application of the Toronto Transportation Commission for approval by the Board of the use by the said Commission of one-man cars of an approved type upon the route hereinafter set out,

1. This Board doth order and adjudge that cars of any type which have been approved for one-man operation may be operated upon the following route:

FLEET ROUTE—On Bathurst Street and Fleet Street, from Wolseley Loop to Eastern Entrance Loop.

2. And this Board further orders and provides that it may at any time or from time to time hereafter rescind, vary, alter or amend this Order, either upon its own motion or at the request or upon the complaint of any municipal corporation, company or person.

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3455a

In the matter of the Application of the Toronto Transportation Commission, pursuant to R.S.O., 1927, Chapter 224, Section 257, for the approval by the Board of the Operation by the said Commission of One-man Cars of an approved type upon certain routes of its railway.

Nov. 12th. Application and material filed.
Nov. 12th. Order.

November 12th, 1931.

ORDER

Upon the application of the Toronto Transportation Commission,

1. This Board doth order that the Order of the Board, dated the 4th day of June, 1931, in this matter be amended by striking out the words "Fleet Route", in paragraph 1, and substituting therefor the words "Fort Route."

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3460

Application by the Township of Etobicoke, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 3757, prohibiting the use of lands and buildings, in that portion of the Township lying south of the Lake Shore Road, for factory purposes.

May 21st. Application and material filed.

June 9th. Hearing, 10.30 to 10.40 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 11th. Draft Order filed.

June 11th. Order issued.

June 9th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the notice of the application and evidence filed as to giving of notice pursuant to Section 398 of "The Municipal Act," upon hearing Counsel for the Applicant, and no one appearing in opposition to the application, and it appearing upon the application that the said By-law should be approved.

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 3757, intituled "By-law No. 3757. A by-law to prohibit the establishment and operation of factories in portion of the Township lying south of the Lake Shore Road," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3461

Application by the City of Toronto, under Section 398, subsection 2 (b) of "The Municipal Act," for approval of its By-law No. 13158, repealing By-law No. 8815 in so far as it prevents the conversion into a duplex dwelling house of the building known as 53 Roxborough Street West.

May 21st. Application and material filed.

June 16th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. Adjourned to 10.30 A.M., the 29th inst.

June 29th. Hearing continued, 10.30 A.M.; 10.35 to 10.45 A.M. Application granted. Applicant's Solicitor to draft Order.

July 8th. Draft Order filed.

July 9th. Order issued.

June 29th, 1931.

ORDER

The Application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its above mentioned by-law, having come on by appointment for Hearing before this Board on the 16th day of June, 1931, in the presence of one property owner affected and having been adjourned until this day, proof having been filed of due service of all notices pursuant to the statute aforesaid and to the directions of the Board given thereunder, having heard read the said by-law and the material filed, and having heard what was alleged by all persons before the Board,

The Board orders, pursuant to Section 398, subsection 2 (b) of "The Municipal Act" aforesaid, that the said By-law No. 13158 being intituled "A by-law to repeal By-law No. 8815 in so far as it prevents the conversion into a duplex dwelling house of the building known as 53 Roxborough Street West," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3465

Application by the Village of Swansea, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 420, prohibiting the use of lands on either side of Runnymede Road north of DeForest Road, for purposes other than private residences or apartments.

May 22nd. Application and material filed.

June 8th. Hearing, 10.30 A.M. to 12.10 P.M., at Board's Chambers. Application dismissed. By-law, however, may be amended. (See Reporter's Notes.)

PROCEDURE FILE A-3466

Application by the Village of Swansea, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 422, prohibiting the use of lands on the west side of Kennedy Avenue for purposes other than that of private residences or apartments.

May 22nd. Application and material filed.

May 30th. Approval of Toronto Finance Corporation Limited (Owners of 108 Kennedy Avenue) filed.

June 8th. Hearing, 10.30 A.M. to 12.10 P.M. At Board's Chambers. Application dismissed. By-law, however, may be amended. (See Reporter's Notes.)

PROCEDURE FILE A-3470

In the matter of the Application of the Corporation of the Village of Fort Erie and the Corporation of the Town of Bridgeburg, for an Order under Section 23 of "The Municipal Act," annexing the Village of Fort Erie to the Town of Bridgeburg,

And in the matter of an Act respecting the Town of Bridgeburg, 1931 (Section 12).

May 26th. Application filed.

Oct. 30th. Further material filed.

Nov. 17th. Corrected Draft Order filed.

Nov. 20th. Copy of By-law 771 of the Village of Fort Erie and copy of By-law 715 of the Town of Bridgeburg, approving draft Order, filed.

Nov. 23rd. Order issued.

November 23rd, 1931.

ORDER

Upon the application of the Corporation of the Town of Bridgeburg and the Corporation of the Village of Fort Erie, and upon reading the Affidavit of

George B. Honey, Clerk of the Village of Fort Erie, the Affidavit of William C. Tait, Clerk of the Town of Bridgeburg, By-law No. 720 of the Village of Fort Erie, By-law No. 684 of the Town of Bridgeburg, and the other material filed, and upon hearing what was alleged by Counsel for the said Corporations;

The Board orders and proclaims:—

1. That the Village of Fort Erie be and the same is hereby annexed to the Town of Bridgeburg, such annexation to take effect on the 31st day of December, 1931, at twelve o'clock noon, and from and after the said date the name of the Corporation of the Town of Bridgeburg shall be "The Corporation of the Town of Fort Erie."

2. That the said Town shall be divided in five wards, which shall be numbered from 1 to 5 consecutively, and described as follows:

WARD No. 1—Comprising all that portion of the Town lying south of the centre line of Queen Street.

WARD No. 2—Comprising all that portion of the Town lying north of the centre line of Queen Street and south of the centre line of Catherine Street.

WARD No. 3—Comprising all that portion of the Town lying north of the centre line of Catherine Street and south of the northerly limit of Michigan Central Railway lands.

WARD No. 4—Comprising all that portion of the Town lying north of the northerly limit of Michigan Central Railway lands and south of the centre line of Phipps Street.

WARD No. 5—Comprising all that portion of the Town lying north of the centre line of Phipps Street and south of the northerly limits of the Corporation.

3. The Council of the said Town shall be composed of a Mayor, a Reeve, a Deputy Reeve and two Councillors for each ward.

4. The nomination for the election of a Mayor, a Reeve, a Deputy Reeve and Councillors for the said Town for the year 1932 shall take place on Monday the 28th day of December, 1931, at the hour of seven-thirty o'clock in the afternoon in the Town Hall in said Town, and Mr. William C. Tait shall be the Returning Office, shall preside thereat and shall give at least six days' notice of the said meeting.

5. At the said nomination meeting the provisions of The Municipal Act relating to elections shall govern the proceedings thereof.

6. If a poll or polls are necessary, the same shall be held on Monday the 4th day of January, 1932, and William C. Tait shall be the Returning Officer for the holding of the election for the whole Municipality and a poll shall be opened at every polling place at eight o'clock in the forenoon and shall be kept open until six o'clock in the afternoon.

7. The polling places for said election, the Deputy Returning Officers and Poll Clerks for each poll respectively shall be as follows:

	Polling Subdivision	Polling Place	D.R.O.	Poll Clerk
Ward No. 1:				
No. 1	For entire ward.....	Town Hall, Queen St.	Mary Griffin	Isabell Honey
Ward No. 2:				
No. 2A	For Electors in Ward 2 from A to K on Voters List........	War Veterans Hall	Frank Morris	Frank Sherk
No. 2B	For Electors in Ward 2 from L to Z on Voters List........	War Veterans Hall	A. H. Shore	William Reid
Ward No. 3:				
No. 3A	For all Electors in that part of Ward 3 lying S. of Gilmore Rd. and East of Concession Rd...........	United Church	Wilfred Foreman	A. Barnhardt
No. 3B	For all Electors in the remainder of Ward 3	R.R.Y.M.C.A.	W. E. Colclough	E. Sensabaugh
Ward No. 4:				
No. 4A	For all Electors in Ward 4 from A to K on Voters' List.....	Town Hall, Jarvis St.	C. Masterman	W. Matthews
No. 4B	For all Electors in Ward 4 from L to Z on Voters' List.....	Town Hall, Jarvis St.	William Talford	P. Embury
Ward No. 5:				
No. 5A	For all Electors in Ward 5 from A to K on Voters' List.....	St. Marys Hall	Chas. Davies	Joe Babcock
No. 5B	For all Electors in Ward 5 from L to Z on Voters' List.....	St Marys Hall	Harry Bush	Mrs. M. Grover

8. The Voters' list to be used at said election shall be the first and second parts of the last certified Voters' list of the Town of Bridgeburg with appropriate changes rendered necessary by the redivision into wards, together with a supplementary list, to be prepared by the said William C. Tait from the last certified Voters' list of the Village of Fort Erie, containing the names of and the other particulars relating to the persons who would have been entitled to vote in the said Village if it had not been annexed; the said supplementary list shall be signed by the said William C. Tait and attested by his declaration and he shall deliver to every Deputy Returning Officer a copy of so much of such list as relates to his polling subdivision. The said William C. Tait shall make any changes in the last certified Voters' list of the Town of Bridgeburg necessitated by the redivision into wards herein provided.

9. After the Returning Officer has received the Ballot Papers and the statement of the number of votes polled at each polling place, without opening any of the sealed packets of ballot papers, he shall cast up from the statement the number of votes for each Candidate; and at the Town Hall at noon on the 5th day of January shall publicly declare to be elected the candidate or candidates having the highest number of votes, and he shall also put up in some conspicuous place a statement under his hand showing the number of votes for each candidate; and if upon the casting up of the votes or upon a recount two or more candidates have an equal number of votes, the said Returning Officer shall at the time he declares the result of the polling, or after receiving the Certificate of the result of the recount, as the case may be, give a vote for one or more of such candidates so as to decide the election.

10. Except as may be herein otherwise provided, the said election shall be conducted and carried out in all respects in accordance with the provisions of "The Municipal Act" so far as the same are applicable thereto.

11. The said William C. Tait, Clerk of the said Town, be and he is hereby authorized as the Returning Officer for the holding of said election to take all such steps as may be necessary for the proper holding of the election.

12. The first meeting of the Council of said Town for the year 1932 shall be held on Monday the 11th day of January, 1932, at eleven o'clock in the forenoon, at which no business shall be proceeded with until after the declarations of office and qualification have been made by all the members who present themselves for that purpose.

13. The Board reserves the right to make and issue such further terms, orders and directions as it may deem necessary.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3477

In the matter of the Petition of J. F. H. Laperriere, and others, under Section 8 of "The Local Improvement Act," against the construction of the following Local Improvements on Parent Avenue, in the City of Ottawa:

(*a*) Sidewalk on east side, from Clarence Street to Water Street;
(*b*) Sidewalk on west side, from Clarence Street to Water Street; and
(*c*) Pavement, from Clarence Street to Water Street.

May 28th. Petitions filed.

June 1st. Certificate of City Clerk filed. Petitions (*a*) and (*c*) sufficient. Petition (*b*) not sufficient.

June 19th. Hearing, *re* (*a*) and (*c*), 10 to 11 a.m., Court House, Ottawa. Seventy-five per cent. of entire cost of work to be paid by City and twenty-five per cent. by the property owners.

June 26th. Draft Order filed.

June 26th. Order issued.

June 19th, 1931.

Order

The Petition of J. F. H. Laperriere and others, under Section 8 of "The Local Improvement Act," against the distribution of the cost of a proposed sidewalk on the east side of Parent Avenue, from Clarence Street to Water Street, and a pavement on Parent Avenue from Clarence Street to Water Street, in the City of Ottawa, having come on to be heard before the Board at a special Sittings thereof held pursuant to appointment at the Court House in the City of Ottawa on Friday the 19th day of June, 1931, whereupon it appearing to the satisfaction of the Board that notice of the said appointment had been served and published in accordance with the requirements of the Board, and upon hearing what was said both by the said Petitioners and by the City Engineer of the said City of Ottawa,

1. The Board doth order and direct that Seventy-five (75) per centum of the total cost of the said Local Improvement pavement and sidewalk (which percentage shall include that part of the cost thereof which the said Corporation is by the provisions of "The Local Improvement Act" required to pay) shall

be borne by the Corporation of the City of Ottawa, and the remaining Twenty-five (25) per centum of the cost thereof shall be assessed against the abutting properties in accordance with the provisions of "The Local Improvement Act."

2. The Board doth further order and direct that the Corporation of the City of Ottawa do pay the sum of Fifteen Dollars ($15.00) for Law Stamps, the Board's tariff fee on this Order.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3478

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13187, repealing its By-laws No. 9874 and 11356 in so far as they prevent the erection of a gymnasium building at the southwest corner of Walmer Road and Lowther Avenue.

May 28th. Application and material filed.

June 29th. Hearing, 10.30 to 10.35 A.M., at the Board's Chambers. Applicant's Solicitor to draft Order.

July 8th. Draft Order filed.

July 9th. Order.

June 29th, 1931.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its above mentioned by-law, having come on for Hearing by appointment this day before this Board, in the presence of certain owners affected or their Counsel, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board given thereunder, having heard read the said by-law and the other material filed, and what was alleged by all owners and Counsel aforesaid,

The Board orders, pursuant to Section 398, subsection (2*b*) of "The Municipal Act" aforesaid, that the said By-law No. 13187, being intituled "A by-law to repeal By-laws Nos. 9874 and 11356 in so far as they prevent the erection of a gymnasium building at the south-west corner of Walmer Road and Lowther Avenue," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3481

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 13184, restricting Lytton Boulevard to detached private residences only.

May 28th. Application and material filed.

September 15th. Hearing, 10.30 A.M.: 12.05 to 12.20 P.M., at Board's Chambers. In view of By-law 12958 Application re By-law 13184 withdrawn. (See Reporter's Notes.)

PROCEDURE FILE A-3481a

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its Restricted Area By-law 13399 amending its By-law No. 13184, restricting Lytton Boulevard to detached private residences only, excepting the lands on either side of the said Boulevard between Yonge Street and Duplex Avenue.

November 20th. Application and material filed.

PROCEDURE FILE A-3482

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law 13196, restricting St. Hilda's Avenue to detached private residences only.

May 28th. Application and material filed.

June 24th. Amending By-law No. 13244 filed.

July 13th. Further amending By-law 13292 (amending 13244) filed.

September 15th. Hearing, 10.30 A.M.: 11.05 to 11.45 A.M., at the Board's Chambers. Hearing adjourned to 22nd October, 1931, at 10.30 A.M., pending reconsideration by the City Council. (See Reporter's Notes.)

October 22nd. Hearing continued, 10.30 to 10.45 A.M. Application granted. Applicant's Solicitor to draft Order.

October 24th. Draft Order filed.

October 26th. Order issued.

October 22nd, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to subsection 2 (b) of Section 398 of "The Municipal Act," being R.S.O., 1927, Chapter 233, for approval of its By-law No. 13196 and the amending By-laws Nos. 13244 and 13292 having come on by appointment for Hearing before this Board on the 15th day of September, 1931, in the presence of certain property owners affected, or their representatives, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board given thereunder, having heard read the said by-laws and the other material filed, and having heard what was alleged by all persons before the Board, and the Hearing of the said application having been adjourned until this day, and no one appearing in opposition to the said by-laws at the said adjourned Hearing.

The Board orders, under and pursuant to the said statute that By-law No. 13196 of the Corporation of the City of Toronto, being intituted "A by-law to restrict to use for detached private residences only, land and buildings on St. Hilda's Avenue," as amended by By-law No. 13244 of the said Corporation being intituled "A by-law to amend By-law No. 13196 restricting to use for detached private residences only, land and buildings on St. Hilda's Avenue," and as further amended by By-law No. 13292 of the said Corporation being intituled "A by-law to amend By-law No. 13244 respecting the use of land and buildings on St. Hilda's Avenue," and the said By-laws Nos. 13244 and 13292 be and the same are hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3483

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13186, repealing its By-law No. 8880 to permit the erection of a duplex dwelling house on part of Lot 12, Plan 762, north side of Lowther Avenue.

May 29th. Application filed.

June 29th. Hearing, 10.30 to 11.35 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

July 8th. Draft Order filed.

July 9th. Order.

June 29th, 1931.

ORDER

The application of the Corporation of the City of Toronto, for approval, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its above mentioned by-law, having come on for Hearing by appointment this day before this Board, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board given thereunder, and no one appearing in opposition to this application; having heard read the said by-law and the other material filed, and what was alleged by Counsel for the Applicant,

The Board orders, pursuant to Section 398, subsection 2 (b) of "The Municipal Act" aforesaid, that the said By-law No. 13186, being intituled "A by-law to repeal By-law No. 8880 in so far as it prevents the erection of a duplex dwelling house on a portion of Lot No. 12, Plan 762, on the north side of Lowther Avenue," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3484

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 12604, to permit the erection of two pairs of semi-detached dwelling houses on Lots 7 and 8, Plan 743, north side of Gormley Avenue.

May 29th. Application filed.

June 29th. Hearing, 10.30 to 11.35 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

July 8th. Draft Order filed.

July 9th. Order.

June 29th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its above mentioned by-law, having come on for Hearing by appointment this day before this Board, in the presence of certain owners affected or their Counsel, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board given thereunder, having heard read the said by-law and the other material filed and what was alleged by all owners and Counsel aforesaid,

The Board orders, pursuant to Section 398, subsection 2 (b) of "The Municipal Act" aforesaid, that the said By-law No. 13189 being intituled "A by-law to repeal By-law No. 12604 in so far as it prevents the erection of two pairs of semi-detached dwelling houses on Lots 7 and 8, Plan 743, on the north side of Gormley Avenue," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3485

Application by the Township of York, under Section 11 of "The Township of York Act, 1931," Chapter 134, for approval of its By-law No. 10869, providing that no building on lands fronting or abutting on part of Vaughan Road shall be erected or placed closer to the line of the highway than the distance set out in the by-law.

May 29th. Application and copy of by-law filed.

June 29th. Hearing, 10.30 to 10.40 A.M., at the Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

June 30th. Approved Draft Order filed.

June 30th. Order.

June 29th, 1931.

ORDER

Upon the application of the Corporation of the Township of York, upon reading the Statutory Declaration of James McGuire and other material filed, and upon hearing what was alleged by Counsel for the Applicants, and Counsel for owners of land affected by the by-law and owners of land appearing in person,

The Board orders, under and in pursuance of the provisions of Section 11 of "The Township of York Act, 1931," Chapter 134, that the By-law No. 10869, passed by the Council of the Corporation of the Township of York on the 21st day of May, 1931, be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3492

Application by the Township of Scarborough, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 1785, restricting Lakeside Avenue and other streets to detached private residences.

June 2nd. Application and material filed.

June 29th. Hearing, 10.30 A.M.: 11.40 A.M. to 12 M.D. Adjourned to 10.30 A.M., September 22nd, 1931, pending amendment to by-law by Council. (See Reporter's Notes.)

September 16th. Amending By-law No. 1800 filed.

September 23rd. Hearing continued, 10.35 to 10.45 A.M. Application granted. Applicant's Solicitor to draft Order.

September 24th. Draft Order filed.

September 24th. Order issued.

September 22nd, 1931.

ORDER

Upon the application of the said Corporation, and the Board having, pursuant to appointment on the 29th day of June, 1931, heard all parties interested, notice of such appointment having been duly given as directed by the Board, and the Board having granted the application of the said Township of Scarborough subject to certain amendments being made to the By-law in question, and a By-law No. 1800, embodying such amendments having been this day filed,

The Board orders, under and in pursuance of the provisions of Section 398 of "The Municipal Act," that the said By-law No. 1785, entitled "By-law No. 1785 of the Township of Scarborough, being a by-law for the purpose of establishing residential districts in certain designated sections of the Township and for regulating the use of lands and buildings in such defined districts," as amended by the said By-law No. 1800, be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3493

In the matter of the Petition of James A. Blount, and others, under Section 8 of "The Local Improvement Act," against the construction of a new sidewalk on the east side of Bank Street, from Carling Avenue to First Avenue, in the City of Ottawa.

June 4th. Petition filed.

July 3rd. Hearing, 10 to 10.45 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.) Report of Mr. Commissioner Ellis: Petition to be dismissed on City undertaking not to construct the work until 1932.

(Sgd.) J. A. ELLIS,
Commissioner.

July 3rd. Report adopted as basis of Board's Order.
July 10th. Draft Order filed.
July 10th. Order issued.

July 3rd, 1931.

ORDER

The Petition of James A. Blount and others, under Section 8 of "The Local Improvement Act," against the replacing of the present sidewalk on the east side of Bank Street, from Carling Avenue to First Avenue, in the City of Ottawa, having come on for Hearing before Mr. Commissioner Ellis (duly authorized under Section 8, Chapter 225, R.S.O.), pursuant to appointment at the Court House, in the City of Ottawa, on Friday the 3rd day of July, A.D. 1931, in the presence of the said Petitioner and others, upon hearing what was alleged both by the said Petitioner and by the Engineer of the Corporation of the City of Ottawa, and the said Commissioner having reported in writing that the said Petition should be dismissed, and that the said work should not be proceeded with prior to the first day of January, 1932, and the said Report having been approved by the Board as the basis of this Order,

1. The Board doth order and direct that the said Petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the said Local Improvement work be not proceeded with prior to the first day of January, 1932.

3. The Board doth further order and direct that the Corporation of the City of Ottawa do affix Law Stamps to a value of Fifteen ($15.00) dollars to this Order in payment of the Board's tariff fee upon the said Hearing.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3494

In the matter of the Petition of Silas Wray, and others, under Section 8 of "The Local Improvement Act," against the construction of a pavement, etc., on Centre Street, from Main Street to the Concrete Bridge, in the Village of Beeton.

June 4th. Petition filed.

July 8th. Hearing, 10.30 A.M.: 12 M.D. to 1.30 P.M., Village Hall, Beeton. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.) Report of Mr. Commissioner Ellis: I recommend that Village pay Sixty per cent. and property owners Forty per cent. of the cost of the work; also that the flankage allowance for corner lots be two-thirds.

(Sgd.) J. A. ELLIS,
Commissioner.

July 9th. Report adopted.
July 9th. Order.

July 8th, 1931.

ORDER

The Petition of the said Silas Wray and other ratepayers against the construction of a pavement on Centre Street, from the northerly limits of Main Street to Concrete Bridge, in the Village of Beeton, having come on this day for hearing before Mr. J. A. Ellis, Commissioner of this Board (duly authorized under Section 8, Chapter 225, R.S.O.), pursuant to appointment at the Village Hall, in the Village of Beeton, and upon hearing Counsel for the Petitioners, and the Reeve for the Municipality, and upon consideration of the material filed, and Mr. Commissioner Ellis having filed his Report in writing on such Hearing, which Report has been adopted as the basis of this Order,

The Board orders that the Corporation of the Village of Beeton pay Sixty per cent. and the property owners Forty per cent. of the cost of the aforesaid work, and also that the flankage allowance for corner lots be two-thirds.

And the Board further orders that the Corporation of the Village of Beeton pay the Board's tariff fee for Law Stamps, $15.00, on this Order, which amount may be charged to the cost of the work.

(Sgd.) A. B. INGRAM,
(Seal) *Vice-Chairman.*

PROCEDURE FILE A-3502

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13185, amending its Restricted Area By-law No. 12958 in so far as it prevents the erection of two detached centre-hall plan dwelling houses on Lots 179 and 180, Plan M-25, west side of Tugwell Avenue.

June 5th. Application and material filed.

September 15th. Hearing, 10.30 A.M.: 11.45 A.M. to 12 M.D., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order. (See Reporter's Notes.)

September 18th. Draft Order filed.

September 20th. Order issued.

September 15th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval of the above mentioned by-law, pursuant to Section 398, subsection 2 (b) of "The Municipal Act, being R.S.O., 1927, Chapter 233, having this day come on for Hearing by appointment before this Board in the presence of certain property owners affected, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board, upon hearing read the said by-law and the other material filed, and upon hearing what was alleged by all persons present or represented before the Board,

The Board orders, under and pursuant to the said Section 398, subsection 2 (b), of "The Municipal Act," that By-law No. 13185 of the Corporation of the City of Toronto, being intituled "A by-law to repeal By-law No. 12958 in so far as it prevents the erection of two detached centre-hall plan dwelling houses on Lots 179 and 180, Plan M-25, on the west side of Tugwell Avenue," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3503

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13188, amending its By-law No. 12958 in so far as it prevents the erection of buffet recess and chimney breast of each of buildings to be erected on Lots 36, 37, 39 and 40, Range 2, Plan 734, north side of Roselawn Avenue, closer to the side lot lines than the distance of 12 inches fixed by the said by-law.

June 5th. Application and material filed.

September 15th. Hearing, 10.30 A.M.: 12 M.D. to 12.30 P.M., at Board's Chambers. Application granted. Applicant's Solicitor to draft Order.

September 18th. Draft Order filed.

September 21st. Order issued.

September 15th, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O., 1927, Chapter 233, for approval of its above mentioned by-law, having come on for hearing by appointment this day before this Board in the presence of certain property owners affected, proof having been filed of due service of all notices pursuant to the aforesaid statute and to the directions of the Board, having heard read the by-law and the other material filed, and having heard what was alleged by all persons before the Board, and it appearing that there was no objection to the said application.

The Board orders, under and pursuant to the said Section 398, subsection 2 (b), of the said Municipal Act, that By-law No. 13188 of the Corporation of the City of Toronto, being intituled "A by-law to repeal By-law No. 12958 in so far as it prevents the erection of the buffet recess and chimney breast of each of the buildings to be erected on Lots 36, 37, 39 and 40, Range 2, Plan 734, on the north side of Roselawn Avenue, closer to the side lot lines than the distance of 12 inches fixed by the said by-law," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3507

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13192, amending its By-law 12958, establishing a restricted district north of Roselawn Avenue, as amended by By-law 13043—(Change re boundaries of lot lines).

June 6th. Application and material filed.

September 15th. Hearing, 10.30 a.m.: 11.45 a.m. to 12 m.d., at Board's Chambers. Application granted. City Solicitor to draft Order.

September 18th. Draft Order filed.

September 21st. Order issued.

September 15th, 1931.

Order

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O., 1927, Chapter 233, for approval of its above mentioned by-law coming on by appointment this day for Hearing before this Board, in the presence of certain property owners affected, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board, having heard read the said by-law and the other material filed and having heard what was alleged by all persons before the Board, and it appearing that there was no opposition to the said application,

The Board orders, under and pursuant to the said Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O., 1927, Chapter 233, that By-law No. 13192 of the Corporation of the City of Toronto being intituled "A by-law to amend By-law No. 12958 establishing a restricted district north of Roselawn Avenue and west of Rosewall Avenue," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

PROCEDURE FILE A-3512

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13225, repealing its By-law 12958 in so far as it prevents the erection of the buffet recess and chimney breast of each of the detached dwelling houses to be erected on Lot 180, Plan M-25, on the south side of Briar Hill Avenue and the east part of Lot 185, and Lot 179, Plan M-25, on the north side of St. Clements Avenue, closer to the side lot lines than the distance of 18 inches fixed by the said by-law.

June 9th. Application and material filed.

June 24th. Hearing, 10.30 A.M.: 11.30 A.M. to 11.35 A.M., at the Board's Chambers. Application granted. City Solicitor to draft Order.

July 8th. Draft Order filed.

July 9th. Order issued.

June 29th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O., 1927, Chapter 233, of its above mentioned by-law, having come on for Hearing by appointment this day before this Board, in the presence of certain owners affected or their Counsel, proof having been filed of due service of all notices pursuant to the said statute and to the directions of the Board given thereunder, having heard read the said by-law and the other material filed and what was alleged by all owners and Counsel aforesaid,

The Board orders, pursuant to Section 398, subsection 2 (b) of "The Municipal Act" aforesaid, that the said By-law No. 13225, being intituled "A by-law to repeal By-law No. 12958 in so far as it prevents the erection of the buffet recess and chimney breast of each of the detached dwelling houses to be erected on Lot 180, Plan M-25, on the south side of Briar Hill Avenue and the east part of Lot 185, and Lot 179, Plan M-25, on the north side of St. Clements Avenue, closer to the side lot lines than the distance of 18 inches fixed by the said by-law," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3541

In the matter of Section 83 of "The Assessment Act," and in the matter of an Appeal thereunder:

BETWEEN:

Hiram Walker & Sons, Limited,
Appellant,

—and—

The Corporation of the Town of Walkerville,
Respondent.

(Land, Buildings and Business Assessment)
($297,450.00)

June 18th. Notice of Appeal filed.

September 17th. Hearing, 10 A.M. to 1.15 P.M., Council Chamber, Walkerville. Judgment reserved.

September 29th. Judgment delivered.

October 30th. Order settled and issued.

December 31st. Appeal allowed by the Appellate Division. (41, O.W.N., 6.)

JUDGMENT

The assessment of the property owned by the Appellant, Hiram Walker and Sons, Limited, and made by the Corporation of the Town of Walkerville, having been heard and disposed of by the Court of Revision for the Town of Walkerville, and the appeal from said decision having come before His Honour Judge Coughlin, the Senior Judge of the County of Essex, this, is therefore, an Appeal by the said Appellant, Hiram Walker and Sons, Limited, from the Judgment of His Honour, the said Judge Coughlin, dated at Sandwich, the 31st day of March, 1931.

The Appeal came on for hearing before this Board at the Town of Walkerville, on Thursday the 17th day of September, 1931, the full Board being present.

By consent the evidence taken before His Honour Judge Coughlin, the Senior Judge of the County of Essex, was filed as being the evidence relied upon by all parties in connection with this Appeal and no further evidence was submitted.

Counsel for the Appellant contended on the evidence:

1. That an agreement having been entered into between the parties hereto that the assessment of the property of the said Appellant shall not exceed 40 per cent. of its actual valuation, which said agreement was admitted by counsel for the Respondent, certain of the assessments made should be lowered or reduced as being beyond the said 40 per cent. value agreed upon.

2. That certain racks or shelves upon which barrels of whiskey were kept for ageing purposes and the walkways and posts connected therewith being either chattel property or fixed machinery used in the manufacture of whiskey are non-assessable.

Counsel for the Respondent contended that, while there was an agreement between the parties that the 40 per cent. valuation should be the limit of the assessment, that such limit had not been in any way exceeded, and that in respect of the contention that certain racks or shelves were non-assessable these racks were a part of the two one-purpose buildings, known as buildings 2L and 2M, and that, therefore, they could not be designated either as "chattels" or "machinery" but were assessable as a part of the buildings.

The evidence submitted established to the satisfaction of this Board that of the shelves or racks referred to 70 per cent. could well be removed without in any way interfering with the buildings, that 100 per cent. of the walkways, and 50 per cent. of the posts connected therewith could also be removed without in any way interfering with the construction of the buildings, known as 2L and 2M, and it was admitted by all parties, and is set out in Exhibit 9 filed, that the amount which might be deducted from the value of the building 2L, as above mentioned, is $33,342.75, and that the amount to be deducted from building 2M under similar circumstances would be $56,605.50.

It was admitted by counsel for the Respondent that the whiskey referred to as kept in barrels upon the racks or shelves or slides above mentioned is a manufactured article and that the manufacturing of the whiskey is not complete until it is ready for market and that to make the article a completely manufactured article ready for market requires some years of keeping or storing, while counsel for the Appellant claimed that this ageing process could only be properly done in the way in which it is done in buildings 2L and 2M above referred to, as the temperature of the building must be kept fairly stationary and the air allowed to circulate among the barrels.

In addition to the above contention it was claimed by the solicitor for the Appellant that the elevator, the heating apparatus, the electrical work and the sprinkler system were also exempt from taxation.

This Board is of the opinion that so much of the racks or slides and the walkways and the posts above referred to as can be removed without interfering with the support of the outside shell of the building is non-assessable, and therefore directs that the assessment of the building known as 2L be reduced by $33,342.75 and that the building known as 2M be reduced by $56,605.50. The business assessment will also be reduced proportionately.

In all other respects the Judgment of His Honour Judge Coughlin is hereby confirmed.

Dated at Toronto,
the 28th day of September, 1931.

(Sgd.) C. R. McKeown,
Chairman.

I agree:
(Sgd.) A. B. Ingram,
Vice-Chairman.
(Sgd.) J. A. Ellis,
Commissioner.

September 28th, 1931.

Order

This application having come on for Hearing before this Board at the Town of Walkerville in the County of Essex on Thursday, the 17th day of September, 1931, in the presence of Counsel for both parties, by way of appeal from the Judgment of His Honour Judge Coughlin, Senior Judge of the County Court of the County of Essex, pronounced on the 31st day of March, 1931, upon hearing read the evidence adduced before the said Senior County Judge and the exhibits therein mentioned, which said evidence and exhibits were by consent filed with this Board and adopted as the evidence in this application, and upon hearing what was alleged by Counsel aforesaid, this Board was pleased to direct that the application stand over for Judgment and the same having this day come on for Judgment:

1. This Board doth declare that so much of the racks in the two structures belonging to the Appellant in the Town of Walkerville and County of Essex and known as 2M and 2L respectively, as can be removed without interfering with the support of the surrounding shell or building, is not assessable or liable to taxation under "The Assessment Act," according to the true intent and meaning of the said Act.

2. And this Board doth order that the assessment on said portions of racks amounting in the case of structure 2M to $22,642.00 plus $33,963.00 for business assessment, and in the case of structure 2L to $13,336.00 plus $20,004.00 for business assessment, be and it is hereby set aside.

3. And save as set out in paragraphs numbered 1 and 2 hereof, this Board doth confirm the said Judgment of His Honour Judge Coughlin.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3546

In the matter of Section 4 of "The (Municipal) Franchises Act" (Chapter 240, R.S.O. 1927),

And in the matter of the granting of a Franchise by the Township of Yarmouth to The Southern Ontario Gas Company.

June 20th. Application by the Township of Yarmouth for approval of its By-law 1156, granting Franchise as above.

July 17th. Reply by City of St. Thomas, filed.

August 20th. Subpoena issued to Solicitors for the Township of Yarmouth.

September 11th. Hearing, 1 to 2 p.m., Court House, City of St. Thomas, Judgment reserved.

September 21st. Application granted. By-law 1156 of Township of Yarmouth approved.

September 25th. Draft Order filed.

September 26th. Order issued.

September 21st, 1931.

Order

Upon the application of the above-named Applicant for an order approving of By-law No. 1156 of the Applicant to grant Franchise to The Southern Ontario Gas Company, Limited, and the same having come on for hearing before this Board on the 11th day of September, 1931, at the Court House in the City of St. Thomas in presence of Counsel for the Applicant, Respondent and Southern Ontario Gas Company, Limited;

Upon hearing the evidence adduced on behalf of the Applicant and Respondent and upon hearing Counsel aforesaid;

This Board was pleased to reserve Judgment thereon and the same coming on this day for Judgment;

This Board pursuant to the provisions of Section 4 of "The Municipal Franchises Act" hereby approves of By-law No. 1156 of the Applicant.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3550

Application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (Chapter 62, 13-14 George V), and amendments, for approval of its By-law No. 3793, enlarging Water Area No. 14 of the said Township.

June 20th. Application and material filed.

July 7th. Hearing, 10.30 to 10.35 a.m., at Board's Chambers. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.) Report of

Mr. Commissioner Ellis: Application to be granted. Applicant's Solicitor to draft Order.

July 7th. Report of Mr. Commissioner Ellis adopted.

December 1st. Draft Order filed.

December 1st. Order issued.

July 7th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and it appearing upon the application that the area described in the said By-law should be added to Water Area No. 14.

This Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 George V, and amendments thereto, that the said By-law 3793, intituled "By-law No. 3793, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 14, as established by By-law No. 3471 and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 14 into the area hereinafter described for the benefit of the said Area," be and the same is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3557

Application by the Township of Etobicoke, under Section 398 of "The Municipal Act," for approval of its By-law No. 3794, restricting the use of lands referred to in the By-law to private residences.

June 22nd. Application and material filed.

September 29th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. Adjourned, pending reconsideration by the Township Council, to 22nd October, 1931, at 10.30 A.M.

October 16th. Application withdrawn.

PROCEDURE FILE A-3558

In the matter of the Petition of Ann J. Stroud and others, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on Stroud's Lane, from Main Street to 1,380 feet southerly, in the City of Hamilton.

June 22nd. Petition filed.

July 14th. Hearing, 10.50 A.M. to 12.50 P.M., at the Council Chamber, Hamilton. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF MR. COMMISSIONER ELLIS

I recommend that the City pay 50 per cent. and the property owners 50 per cent. of the entire cost of the work, and that on these terms the work be proceeded with.

(Sgd.) J. A. ELLIS,
Commissioner.

July 16th. Report adopted.

August 18th. Objection to form of Order filed by Petitioners' Solicitors.

September 9th. Hearing, to settle form of Order, 10.50 A.M., Council Chamber, Hamilton. Adjourned to September 23rd, 1931, to allow application to be made for a rehearing of the question.

September 23rd. Hearing continued, 10.50 A.M. to 1 P.M., Council Chamber, Hamilton. Order to be settled by Solicitors for Petitioners and City on basis that City and property owners each pay 50 per cent. of the cost of a 15-inch sewer.

October 28th. Approved draft Order filed.

October 28th. Order issued.

October 13th, 1931.

ORDER

Upon the petition of the said Ann J. Stroud and others, under Section 8 of "The Local Improvement Act," against the construction by the City of Hamilton of a pipe sewer in the City of Hamilton on Stroud's Lane, from Main Street to 1,380′ southerly, as a local improvement, and upon consideration of such petition and the other material filed, and hearing all parties interested, and upon consideration of the evidence adduced and what was alleged by Counsel for the Petitioners and for the Corporation of the City of Hamilton;

1. This Board doth order that the property owners shall pay Fifty per cent. of the cost of the work based on a fifteen-inch sewer to be assessed on foot frontage, with a lot depth of one hundred feet, and that the City Corporation shall pay the balance of the cost of the said sewer, and that on these terms the work shall be proceeded with; and in all other respects the said petition is hereby dismissed.

2. And this Board doth further order that there shall be no costs of the said application to any party, except that the Corporation of the City of Hamilton shall pay $15.00 for Law Stamps on this Order, chargeable to the cost of the work.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3565

Application by the Village of Forest Hill, under Section 12 of "The Planning and Development Act" (as amended in 1930), for approval of the widening, altering the grade of and improving Bathurst Street from Eglinton Avenue to the south limit of the Belt Line Railway.

June 24th. Application and material filed.

June 30th. Hearing, 10.30 to 11.15 A.M., at the Board's Chambers. Referred to Engineers for parties and Board for report and estimates of cost of different schemes propounded. (See Reporter's Notes.) Hearing adjourned (pending such report and estimates) to 15th July, at 10.30 A.M.

July 15th. Hearing continued, 10.30 to 11.50 A.M. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.) Unless Order, to be drafted by Mr. Grant (Applicant's Solicitor) be approved by the municipalities interested (Forest Hill Village and City of Toronto), Hearing adjourned to 10.30 A.M., 3rd September, 1931. (See Reporter's Notes.)

July 27th. Approved draft Order filed.

July 27th. Order issued.

July 15th, 1931.

ORDER

Upon the application of the Corporation of the Village of Forest Hill, and upon reading the material filed in support of same, and this application having come on for Hearing before the Board on the 30th day of June, 1931, pursuant to appointment, and upon hearing Counsel for the Applicant, Melville Grant, Esquire, and Counsel for the Corporation of the City of Toronto, John Johnston, Esquire, when the matter was referred to the Engineers of the respective corporations and the Board for report and estimates of cost of different schemes propounded, and the Hearing being adjourned to this day pending the filing of such report, and such report, dated the 14th day of July, 1931, having been so filed, and the application having come on for Hearing this day before Mr. Commissioner Ellis (duly authorized under Section 8, Chapter 225, R.S.O.) pursuant to such adjournment, when the application was granted subject to the Order, to be drafted by the Applicant's Solicitor, being approved by the Solicitor for the Corporation of the City of Toronto, and approved draft Order being so filed;

The Board orders, under and in pursuance of the provisions of Section 12 of "The Planning and Development Act," being Chapter 236, Revised Statutes of Ontario, 1927, that the widening, altering the grade of and improving Bathurst Street, from Eglinton Avenue to the south limit of the Belt Line Railway, as planned by the Applicant, is hereby approved.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3570

In the matter of the Petition of Hannah Taylor and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the east and west sides of Vanauley Street, between Queen Street and Grange Avenue in the City of Toronto.

June 25th. Petition filed.

September 5th. Hearing, 10.30 to 11.20 A.M., at Board's Chambers. Adjourned to September 15th, at 10.30 A.M., pending view by the Board.

September 15th. Hearing continued, 10.30 to 10.45 A.M. Petition allowed. City Solicitor to draft Order. City may instal 28-foot pavement and new sidewalk; City in that case to pay all expense over a 20-foot pavement.

PROCEDURE FILE A-3570a

In the matter of the Petition of Hannah Taylor and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete curb on the east and west sides of Vanauley Street, between Queen Street and Grange Avenue in the City of Toronto.

June 25th. Petition filed.

September 5th. Hearing, 10.30 to 11.20 A.M., at Board's Chambers. Adjourned to September 15th, at 10.30 A.M., pending view by the Board.

September 15th. Hearing continued, 10.30 to 10.45 A.M. Petition allowed. City Solicitor to draft Order. City may instal 28-foot pavement and new sidewalk; City in that case to pay all expense over a 20-foot pavement.

PROCEDURE FILE A-3570b

In the matter of the Petition of Hannah Taylor and others, under Section 8 of "The Local Improvement Act," against the construction of a 28-foot asphalt pavement to be laid on a six-inch foundation with gutters, on Vanauley Street, between Queen Street and Grange Avenue in the City of Toronto.

June 25th. Petition filed.

September 5th. Hearing, 10.30 to 11.20 A.M., at Board's Chambers. Adjourned to September 15th, at 10.30 A.M., pending view by the Board.

September 15th. Hearing continued, 10.30 to 10.45 A.M. Petition allowed. City Solicitor to draft Order. City may instal 28-foot pavement and new sidewalk; City in that case to pay all expense over a 20-foot pavement.

PROCEDURE FILE A-3571

In the matter of the Petition of Hannah Taylor and others, under Section 8 of "The Local Improvement Act," for construction of new roadway (to be same width as present roadway) to be laid on 6-inch concrete foundation with gutters, on Vanauley Street, between Queen Street and Grange Avenue in the City of Toronto.

June 25th. Petition filed.

June 30th. This Petition in nature of request that the pavement if laid be not wider than existing roadway. (See letter of June 28th, 1931, from City Clerk.)

September 3rd. Hearing, 10.30 to 10.40 A.M., at Board's Chambers. Petition dismissed (Board has not jurisdiction).

PROCEDURE FILE A-3574
(See P.F. A-3361)

In the matter of "The Railway and Municipal Board Act,"

And in the matter of Section 257 of "The Railway Act,"

And in the matter of By-law No. 3336 passed by the Municipal Council of the Corporation of the City of Hamilton,

And in the matter of Order of The Ontario Railway and Municipal Board, dated the 24th day of April, 1931. (Respecting the operation of One-Man Cars in the City of Hamilton.)

June 26th. Application by the City of Hamilton for a variation of the above Order.

July 28th. Hearing, pursuant to arrangement, 10.30 to 11 A.M., at the Board's Chambers. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF MR. COMMISSIONER ELLIS

The Hydro-Electric Power Commission of Ontario not objecting, I recommend that no further action be taken under the Board's Order herein dated the 24th day of April, 1931, until after the disposition of the City's application to vary or amend the said Order.

The City Solicitor to draft the Order and have same initialled by the Solicitor for the Hydro-Electric Power Commission.

(Sgd.) J. A. ELLIS,
Commissioner.

July 29th. Report adopted.

August 29th. Draft Order filed.

August 29th. Order issued.

September 23rd. Hearing, pursuant to arrangement, 10.50 A.M. to 1 P.M. Council Chamber, Hamilton. Adjourned to 13th October, 1931, at 10.50 A.M., Council Chamber, Hamilton.

October 13th. Hearing continued, 10.50 A.M. to 12 M.D. Adjourned to October 26th, 1931, at 10.30 A.M., at the Board's Chambers, for ratification of Agreement.

October 26th. Hearing continued, 10.30 to 11 A.M. Counsel report Agreement for settlement, to be ratified (where necessary) by Ontario Legislature. Order to be drafted by the City Solicitor and approved by all parties. Copy of Agreement to be filed. (See Reporter's Notes.)

July 29th, 1931.

ORDER

Upon the application of representatives of the employees of the Hamilton Street Railway, and of the Corporation of the City of Hamilton at a Sittings of the Board held before Mr. Commissioner Ellis (under Section 8, Chapter 225, R.S.O.), on the 28th day of July, 1931, at its Chambers in Toronto in presence of the said representatives and Counsel for the Applicant and Respondent and upon hearing the said parties, and Mr. Commissioner Ellis' report on such Hearing having been adopted as the basis of the Board's Order herein;

This Board doth order that the provisions of the Order of this Board, No. P.F.A.-3574, in respect of the operation of One-Man Cars in the City of Hamilton on the route known as the James and Burlington Route, be and the same are hereby suspended until after the final disposition of an application now pending by the Corporation of the City of Hamilton for rehearing in respect of the same or until further Order.

(Sgd.) C. R. MCKEOWN,
(Seal) *Chairman.*

PROCEDURE FILE A-3576

Application by the Village of Forest Hill, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 568, amending its Restricted Area By-law No. 285 to include Lot at the southwest corner of Eglinton Avenue and Chaplin Crescent.

June 27th. Application and material filed.

July 21st. Hearing, 10.30 to 11.15 A.M., at the Board's Chambers. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.) Recommendation that By-law be approved.

July 22nd. Recommendation adopted.

PROCEDURE FILE A-3582

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13263, repealing its Restricted Area By-law No. 8866 to permit the erection of an apartment house and stores at the northwest corner of Bloor Street and Bedford Road.

July 3rd. Application and material filed.

September 3rd. Hearing, 10.30 A.M.; 11.20 A.M. to 12.15 P.M., at the Board's Chambers. Application not granted. Approval of amending By-law unnecessary. (See Reporter's Notes.)

PROCEDURE FILE A-3586

In the matter of the Petition of the Malvina Delorme Estate and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the north side of Somerset Street, from College Avenue to King Edward Avenue, in the City of Ottawa.

July 7th. Petition filed.

July 24th. Hearing, 10.30 A.M. to 11.30 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF MR. COMMISSIONER ELLIS

I recommend that the Petition be dismissed. Present sidewalk is thirty-six years old.

(Sgd.) J. A. ELLIS,
Commissioner.

July 29th. Report adopted.
August 6th. Draft Order filed.
August 7th. Order issued.

July 24th, 1931.

ORDER

The Petition of the executors of the estate of the late Malvina Delorme and others under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the north side of Somerset Street from College Avenue to King Edward Avenue in the City of Ottawa, having come on for Hearing pursuant to appointment before Mr. Commissioner Ellis, duly authorized under Section 8, Chapter 225, R.S.O., at the Court House in the City of Ottawa, on Friday, the 24th day of July, 1931, at half-past ten o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged by the said Petitioners in support of the said petition and by the Engineer of the said Corporation in opposition thereto; the said Commissioner having reported in writing to the Board upon the said petition and the said report having been adopted as the basis of this Order;

1. The Board doth order that the said Petition be and the same is hereby dismissed.

2. The Board doth order that the said City of Ottawa do affix the sum of Ten ($10.00) dollars in Law Stamps to this Order in payment of the Board's tariff fee upon the said Hearing.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3588

In the matter of the Petition of F. Scrim and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the north side of Catherine Street, between Bank Street and O'Connor Street, in the City of Ottawa.

July 8th. Petition filed.

July 24th. Hearing, 10.30 to 11 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF MR. COMMISSIONER ELLIS

I recommend that the Petition be dismissed. Present sidewalk thirty-eight years old.

July 29th. Report adopted.

August 6th. Draft Order filed.

August 6th. Order issued.

July 24th, 1931.

ORDER

The Petition of F. Scrim and others, under Section 8 of "The Local Improvement Act," against the construction of a concrete sidewalk on the north side of Catherine Street, from Bank Street to O'Connor Street, in the City of Ottawa. having come on for Hearing pursuant to appointment before Mr. Commissioner Ellis, duly authorized under Section 8, Chapter 225, R.S.O., at the Court House in the City of Ottawa, on Friday, the 24th day of July, 1931, at half-past ten o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged by the said Petitioners in support of the said petition and by the Engineer of the said Corporation in opposition thereto; the said Commissioner having reported in writing to the Board upon the said petition and the said report having been adopted as the basis of this Order;

1. The Board doth order that the said petition be and the same is hereby dismissed.

2. The Board doth further order that the said City of Ottawa do affix the sum of Ten Dollars ($10.00) in Law Stamps to this Order in payment of the Board's tariff fee upon the said Hearing.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3589

In the matter of the Petition of Andrew Pritchard (by his Agent, E. A. Beach), and others, under Section 8 of "The Local Improvement Act," against the construction of repavement on Rideau Street, between Nelson and Charlotte Streets, in the City of Ottawa.

July 9th. Petition filed.

July 24. Hearing, 10.30 to 11 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF MR. COMMISSIONER ELLIS

I recommend that the City pay 50 per cent. and the property owners 50 per cent. of the entire cost of the work.

(Sgd.) J. A. ELLIS,
Commissioner.

July 29th. Report adopted.
August 6th. Draft Order filed.
August 6th. Order issued.

July 24th, 1931.

ORDER

The Petition of Andrew Pritchard and others, under Section 8 of "The Local Improvement Act," against the proposed repavement of Rideau Street between Nelson and Charlotte Streets in the City of Ottawa, having come on to be heard before Mr. Commissioner Ellis, duly authorized under Section 8, Chapter 225, R.S.O., pursuant to appointment at the Court House in the City of Ottawa, on Friday, the 24th day of July, 1931, at half-past ten o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged by the said Petitioners in support of the said petition and by the Engineer of the said Corporation, in support of the said local improvement work, and the said Commissioner having reported in writing to the Board that one-half of the entire cost of the said local improvement work should be borne by the Corporation of the City of Ottawa and the remaining half should be specially assessed against the lands abutting thereon according to the extent of their respective frontages and the Board having adopted the said report as the basis of this Order;

1. It is ordered that Local Improvement Reports Numbers 566-C and 576-C of the City of Ottawa authorizing the repavement of Rideau Street from Nelson to Charlotte Street be amended so as to provide that one-half of the entire cost of the said local improvement work should be borne by the Corporation of the City of Ottawa and the remaining one-half of the entire cost thereof should be specially assessed against the lands abutting on the said work according to the extent of their respective frontages.

2. In all other respects the said local improvement reports are confirmed.

3. The Corporation of the City of Ottawa shall affix the sum of Ten dollars ($10.00) in Law Stamps to this Order in payment of the Board's tariff fee upon the said hearing.

(Seal) (Sgd.) A. B. INGRAM,
Vice-Chairman.

PROCEDURE FILE A-3599

Application by the City of Toronto, under subsection 2 (*b*) of Section 398 of "The Municipal Act," for approval of its By-law No. 13298, repealing its Restricted Area By-law 12958 to permit the erection of a private detached house on the westerly 40 feet (instead of 50 feet), of Lot 2, Plan M-293, north side of Courtleigh Boulevard.

July 15th. Application and material filed.
September 22nd. Hearing, 10.30 to 10.35 A.M., at the Board's Chambers. Application granted; Applicant's Solicitor to draft Order.
September 25th. Draft Order filed.
September 25th. Order issued.

September 22nd, 1931.

ORDER

The application of the Corporation of the City of Toronto, pursuant to Section 398, subsection 2 (b) of "The Municipal Act," being R.S.O. 1927, Chapter

233, for approval of its above-mentioned by-law, having come on by appointment for Hearing this day in the presence of certain property owners affected, proof having been filed of due service of notices pursuant to the aforesaid Statute and to the directions of the Board given thereunder, upon hearing read the material filed and upon hearing what was alleged by all parties present or represented, and it appearing that there was no opposition to the said application;

The Board orders under and in pursuance of the above-mentioned Statute, that By-law No. 13298 of the Corporation of the City of Toronto, being intituled "No. 13298, A By-law to repeal By-law No. 12958 in so far as it prevents the erection of a private detached residence on the westerly 40 feet of Lot No. 2, Plan M-293, on the north side of Cortleigh Boulevard on land with a lesser frontage than 50 feet fixed by the said By-law," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3600

Application by the City of Hamilton, under Section 44 of "The Municipal Act," for approval of the redivision of the said City into Eight Wards.

July 15th. Application filed.

September 9th. Hearing, 10.50 to 11 a.m., Council Chamber, City of Hamilton. Application granted; City Solicitor to draft Order.

September 16th. Draft Order filed.

September 22nd. Order issued.

September 9th, 1931.

Order

Upon the application of the Council of the Corporation of the City of Hamilton on the 14th day of July, 1931, it has been made to appear that two-thirds of all the members of the Municipal Council of the Corporation of the City of Hamilton, in the County of Wentworth, did, in Council before the 15th day of July, 1931, and in pursuance of Section 44 of "The Municipal Act," pass a Resolution affirming the expediency of a division or new division into Wards being made of the said City, and upon hearing what was alleged by Counsel on behalf of the said applicants:

1. This Board doth order and proclaim the redivision of the said City of Hamilton into eight Wards to be called and known respectively as Ward No. One, Ward No. Two, Ward No. Three, Ward No. Four, Ward No. Five, Ward No. Six, Ward No. Seven, and Ward No. Eight.

2. It is further ordered that the said Wards shall be bounded as set forth in Schedule "A" hereto annexed.

3. And the Board further orders that the said redivision of the said City of Hamilton into Wards as aforesaid, shall take effect in accordance with the provisions of said Municipal Act, on and from the First day of January, 1932.

4. And it is ordered that the Municipal Corporation of the City of Hamilton shall pay the sum of $15.00 for Law Stamps on this Order.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

SCHEDULE "A"

WARD NO. 1

Commencing at the intersection of the centre line of King Street with the centre line of Wentworth Street:

Thence easterly along the said centre line of King Street to its intersection with the eastern City limits at the eastern limit of Kenilworth Avenue. Thence southerly and westerly and following the City limits as established by order of the Ontario Railway and Municipal Board, dated March 11th, 1924, to a point where the said City limits intersect the brow of the Mountain. Thence westerly and following the brow of the mountain to its intersection with the production easterly of a line drawn parallel with and distant one hundred feet (100′ 0″) southerly at right angles from the south limit of Concession Street, which line marks the southern City limits at this point. Thence westerly and southerly and following the various courses of the City limits as established by Order of the Ontario Railway and Municipal Board, dated September 11th, 1928, to a point where the said City limits would intersect the centre line of Wentworth Street, at a distance of one hundred feet (100′ 0″) measured southerly at right angles from the south limit of Fennel Avenue. Thence northerly along the centre line of Wentworth Street to its intersection with the centre line of Concession Street. Thence easterly along the centre line of Concession Street to where it would intersect the production southerly of the centre line of Wentworth Street as established north of Concession Street. Thence northerly along the said centre line of Wentworth Street to the place of the beginning.

WARD NO. 2

Commencing at the intersection of the centre line of King Street with the centre line of Wentworth Street. Thence westerly along the centre line of King Street, and passing along the north side of Gore Park, to its intersection with the centre line of Bay Street. Thence southerly along the centre line of Bay Street and the production thereof southerly to the brow of the mountain. Thence westerly along the brow of the mountain to its intersection with the western limit of the Road Allowance between lots fifteen (15) and sixteen (16) in the Fourth Concession of the Township of Barton. Thence southerly along the said western limit of the road allowance between lots fifteen (15) and sixteen (16) in the Fourth and Fifth Concessions of the Township of Barton to the southern City limits, being at a point distant one hundred and five feet (105′ 0″) measured southerly at right angles from the south limit of Fennel Avenue. Thence easterly along the southern City limits, as established by two Orders of the Ontario Railway and Municipal Board dated September 11th, 1928, and February 28th, 1929, respectively, to a point where the said limits intersect the centre line of Wentworth Street. Thence northerly along the centre line of Wentworth Street to its intersection with the centre line of Concession Street. Thence easterly along the centre line of Concession Street to where it would intersect the production southerly of the centre line of Wentworth Street as established north of Concession Street. Thence northerly along the said centre line of Wentworth Street to the place of beginning.

WARD NO. 3

Commencing at the intersection of the centre line of King Street with the centre line of Bay Street. Thence westerly along the centre line of King Street to its intersection with the centre line of Tope Crescent. Thence south-westerly along the centre line of Tope Crescent to its intersection with the centre line of Main Street. Thence westerly along the centre line of Main Street to its intersection with western City limits at the division line between lots fifty-five (55) and fifty-six (56) in the Township of Ancaster. Thence southerly along the division line between lots fifty-five (55) and fifty-six (56) being the western City limits to its intersection with the northern limit of the Brantford & Hamilton Electric Railway Company's right-of-way. Thence easterly along said northern limit of the Brantford & Hamilton Electric Railway Company's right-of-way to its intersection with the division line between the Townships of Ancaster and Barton. Thence northerly along the division line between the Townships of Ancaster and Barton to its intersection with the said centre line of Main Street. Thence easterly along the said centre line of Main Street to its intersection with the western limit of Paradise Road. Thence southerly along the western limit of Paradise Road to its intersection with the southern limit of Aberdeen Avenue. Thence easterly along the southern limit of Aberdeen Avenue to its intersection with the southeasterly limit of lands belonging to the T.H. & B. Ry. Co. (Aberdeen Freight Yards). Thence southwesterly along said southeasterly limit of T.H. & B. Ry. Co.'s land to its intersection with the western limit of Paradise Road. Thence southerly along the western limit of Paradise Road one thousand and eighty-four feet and six inches (1,084′ 6″) to the S.E. angle of the lands belonging to the Canadian Porcelain Co. Thence south eighty-nine degrees and thirty minutes west (S. 89° 30′ W.) along the southern limit of The Canadian Porcelain Co.'s lands nine hundred and twenty feet (920′ 0″) to the S.W. angle thereof. Thence south eighteen degrees and twenty-four minutes west (S. 18° 24′ W.) one thousand two hundred and forty-four feet and six inches (1,244′ 6″) more or less to a point in the southern limit of the unopened road allowance between Concessions Four (4) and Five (5) in the Township of Barton. Thence easterly along said southern limit of the road allowance between Concessions Four (4) and Five (5) six hundred and forty-seven feet (647′ 0″) more or less to its intersection with the brow of the mountain, which is the southern City limit at this point. Thence continuing easterly along the said southern City limits, as established by Orders of the Ontario Railway and Municipal Board dated May 6th, 1925, and January 11th, 1910, and by Proclamation issued by the Province of Ontario on the 2nd day of July, 1891, to its intersection with the production southerly of the centre line of Bay Street. Thence northerly along the said centre line of Bay Street to the place of beginning. Save and excepting from the above described parcel that portion of Main Street lying north of the centre line of Main Street between the west limit of Paradise Road and the division line between the Townships of Ancaster and Barton, which portion was not included in the City limits.

Ward No. 4

Commencing at the intersection of the centre line of King Street with the centre line of Bay Street. Thence westerly along the centre line of King Street to its intersection with the centre line of Tope Crescent. Thence southwesterly along the centre line of Tope Crescent to its intersection with the centre line of Main Street. Thence westerly along the centre line of Main Street to its intersection with the southerly production of the eastern limit of the right-of-way lands of the Hamilton and Dundas Electric Railway. Thence northerly along the eastern limit of the said right-of-way lands of the Hamilton and Dundas Electric Railway and the production thereof northerly in a straight line to its intersection with the division line between the Townships of Ancaster and West Flamboro. Thence easterly along the division line between the Townships of Ancaster and West Flamboro to its intersection with the division line between the Townships of Ancaster and Barton. Thence northerly along the division line between the Townships of Barton and West Flamboro to its intersection with the southern limit of the Desjardins Canal. Thence easterly along the southern limit of the Desjardins Canal to its intersection with the eastern limit of Cootes Paradise. Thence northerly along the eastern limit of Cootes Paradise and the old Channel in all its windings to its intersection with the southern limit of the Plains Road. Thence easterly along the southern limit of the Plains Road to its intersection with the eastern limit of Woodlawn Cemetery. Thence southeasterly along the said eastern limit of Woodlawn Cemetery to the water edge of Hamilton Harbour (formerly Burlington Bay). Thence southwesterly following the water's edge of Hamilton Harbour to the most southerly point of the low promontory known as Carroll's Point. Thence north seventy-seven degrees and forty-two minutes west (N. 77° 42′ W.) to an intersection with the westerly water's edge of Hamilton Harbour. Thence southerly and easterly and along the westerly and southerly water's edge of Hamilton Harbour to its intersection with the production northerly of the centre line of that portion of Bay Street as established between Burlington Street and Picton Street. Thence southerly along the said production of the centre line of Bay Street and continuing along the centre line of Bay Street to the place of beginning. Save and excepting from the above-described parcel that portion of Main Street lying north of the centre line of Main Street between the west limit of Paradise Road and the division line between the Townships of Ancaster and Barton, which portion was not included in the City limits.

WARD NO. 5

Commencing at the interection of the centre line of King Street with the centre line of Wellington Street. Thence westerly along the centre line of King Street, and passing along the north side of Gore Park to its intersection with the centre line of Bay Street. Thence northerly along the centre line of Bay Street and along the production of the said centre line, as established between Picton Street and Burlington Street, in a straight line to its intersection with the southerly water's edge of Hamilton Harbour (formerly Burlington Bay). Thence easterly along the said water's edge of Hamilton Harbour to its intersection with the centre line of Wellington Street as produced northerly. Thence southerly along the centre line of Wellington Street to the place of beginning.

WARD NO. 6

Commencing at the intersection of the centre line of King Street with the centre line of Sherman Avenue. Thence westerly along the centre line of King Street to its intersection with the centre line of Wellington Street. Thence northerly along the centre line of Wellington Street and the production thereof northerly to its intersection with the southerly water's edge of Hamilton Harbour. Thence easterly along the said water's edge of Hamilton Harbour to its intersection with Sherman Avenue as produced northerly. Thence southerly along the said centre line of Sherman Avenue to the place of beginning.

WARD NO. 7

Commencing at the intersection of the centre line of King Street with the centre line of Ottawa Street. Thence westerly along the centre line of King Street to its intersection with the centre line of Sherman Avenue. Thence northerly along the centre line of Sherman Avenue and the production thereof northerly to its intersection with the southerly water's edge of Hamilton Harbour. Thence easterly along the said water's edge of Hamilton Harbour to its intersection with the production northerly of the centre line of Ottawa Street. Thence southerly along the said centre line of Ottawa Street to the place of beginning.

WARD NO. 8

Commencing at the intersection of the centre line of King Street with the centre line of Ottawa Street. Thence northerly along the centre line of Ottawa Street and the production thereof northerly to the water's edge of Hamilton Harbour. Thence easterly along the water's edge of Hamilton Harbour to its intersection with the division line between the Townships of Barton and Saltfleet, which is also the eastern City limit. Thence southerly along the said eastern City limit to a point one hundred feet (100′ 0″) southerly from the southern limit of Main Street. Thence westerly along a line one hundred feet (100′ 0″) south of the southern limit of Main Street where the township lots are unsubdivided, and along the southern limit of the lots where subdivisions occur, to the eastern limit of Kenilworth Avenue. Thence southerly along the eastern limit of Kenilworth Avenue to its intersection with the centre line of King Street. Thence westerly along the centre line of King Street to the place of beginning.

PROCEDURE FILE A-3614

In the matter of Sections 56 and 59 of "The Highway Improvement Act" (Chapter 54, R.S.O. 1927) and amendments,

And in the matter of Section 28 of "The Public Works Act" (Chapter 52, R.S.O. 1927), and amendments,

And in the matter of compensation to be paid to W. J. Walsh by reason of the expropriation of part Lot 11, Con. I, N.D.S., Township of Toronto, County of Peel.

July 22nd. Reference filed by the Honourable the Minister of Public Highways.

September 10th. Particulars of claim filed.

October 27th. Hearing, 10.30 A.M. to 1.10 P.M., at Board's Chambers. Award reserved.

November 25th. Award issued.

AWARD

To all to whom these presents shall come:
The Ontario Railway and Municipal Board sends greeting.

Whereas pursuant to the provisions of Section 56 of "The Highway Improvement Act," being Chapter 54 of the Revised Statutes of Ontario, 1927, the Minister of Highways saw fit to expropriate a piece of land belonging to W. J. Walsh in a part of Lot No. 11 in the First Concession, N.D.S., Township of Toronto, in the County of Peel, which said piece of land had a frontage of 300 feet on Dundas Street, and 201 feet 5 inches on the right-of-way of the electric railway crossing Dundas Street at this particular point, and which said land so expropriated consisted of .52 acre;

And whereas the parties hereto not having agreed upon the price to be paid for the land so expropriated reference was made pursuant to Section 28 of "The Ontario Public Works Act," being Chapter 52, Revised Statutes of Ontario, 1927, to The Ontario Railway and Municipal Board, to adjudicate upon the matter in dispute herein;

And whereas the whole matter was gone into at the Board's Chambers, in the Parliament Buildings, City of Toronto, on Tuesday, the 27th day of October, 1931, all members of the Board being present, several witnesses having been called both by the Claimant and by the Respondent.

The Claim as filed by the Claimant is as follows:

(1) Value to Mr. Walsh of land taken fronting on the highway and the railway right-of-way	$2,500 00
(2) Value of timbers removed	50 00
(3) Diminution in the value of the remaining property of Mr. Walsh caused by the severance of land taken	2,000 00
(4) Damages caused by necessity of building fence along the new boundary, 485 feet 5 inches	50 00
	$4,600 00

After hearing the evidence submitted this Board is of the opinion that the property taken could not well be valued for more than $700.00 an acre, and as the portion expropriated is slightly more than one-half acre, the value of the land taken is fixed by the Board at $400.00.

As to the value of the timbers removed no additional allowance is made as it is the opinion of the Board that the value of the land carries with it the value of the timber thereon.

This Board cannot see that the balance of the land owned by Mr. Walsh is in any way injured by the expropriation of the half-acre or thereabouts of land taken by the Department of Highways, and makes no allowance in connection therewith.

There was practically no evidence submitted one way or the other as to the cost of building the fence made necessary by the expropriation, but as a fence will no doubt be required this Board would allow the sum of $25.00 for that purpose.

In addition thereto the Claimant should be allowed 10 per cent. on $400.00, being $40.00, for forcible taking, and interest at the rate of 5 per cent. per annum upon the said $400.00 from the date of the expropriation to the date of payment of this award.

The Board's award therefore is:

Value of land taken	$400 00
10 Per cent. thereof for forcible taking	40 00
Building fence	25 00
	$465 00

and interest at the rate of 5 per cent. on the said sum of $465.00 from the date of expropriation until payment.

The Board further allows the said Claimant his costs in connection with this application, fixed at $75.00.

In witness whereof the members of The Ontario Railway and Municipal Board have hereto set their hands and have caused to be affixed the Seal of the

Board this 25th day of November, A.D. 1931, at the City of Toronto, in the Province of Ontario.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Procedure File A-3629

In the matter of the Petition of Arthur W. Roussel and others, under Section 20 of "The Municipal Act," for annexation to the City of Hamilton of part of the Township of Saltfleet (the northerly part of Lots 29, 30, 31, 32, 33 and 34, Broken Front Concession of said Township and part of Burlington Beach).

July 28th. Objection filed by the Township of Saltfleet.

July 29th. Petition and copy of Resolution of Expediency of City Council filed.

September 9th. Preliminary Hearing, 10.50 to 11.50 a.m., at Council Chamber, Hamilton, to determine whether petition is sufficiently signed, or otherwise, etc. Application refused. Leave to City to apply on September 23rd, 1931, for a vote on the question.

September 23rd. Hearing, pursuant to adjournment, 10.50 a.m. to 1 p.m., Council Chamber, Hamilton. Adjourned *sine die.*

Procedure File A-3645
(See P.F. A.-3565)

Application by the Village of Forest Hill, under Section 6 of "The Local Improvement Act," for approval of the widening, altering the grade of and improving Bathurst Street, from Eglinton Avenue to south limit of the Belt Line Railway.

August 11th. Application and material filed.

August 11th. Copy of Objection of R. J. Lillico, John Skuce and Bruce Land Company filed.

August 17th. Subpoena issued to Solicitor for Bruce Land Company and others.

August 19th. Hearing, 10 a.m. to 5 p.m., at the Board's Chambers. Adjourned for Argument to August 20th, 1931, at 10.30 a.m.

August 20th. Hearing continued, 10 a.m. to 12 m.d. Judgment (dictated at the Hearing).

Copy of Judgment of Chairman of The Board Delivered Verbally at the Hearing, August 20th, 1931

This is an application made by the Village of Forest Hill for the approval of the construction as a local improvement of the widening, altering the grade of and improving Bathurst Street, in the said Village, from Eglinton Avenue to the south limit of the Belt line Railway.

The Village of Forest Hill, in their desire apparently to develop that part of the Village which lies immediately west of Bathurst Street and south of the Belt Line Railway, and at the same time develop as a residential district that part of the Village lying north of the Belt Line and east of Bathurst, have seen fit to undertake the widening, grading, etc., of Bathurst Street in the vicinity of the district between Bathurst Street and Old Forest Hill Road, which work includes the construction of a bridge over Bathurst Street, and the whole work is a work estimated to cost some $60,000.

By reason of the cost His Lordship Mr. Justice McEvoy, upon an application made to him for an injunction restraining the Village from proceeding with the work, came to the conclusion that the work is one which comes under Section 6 of "The Local Improvement Act," and that by reason of the objection of one or more of the resident property owners of the district to be assessed, cannot be proceeded with without the approval of The Ontario Railway and Municipal Board. For that reason the application is made, and this Board is inclined to agree with the opinion expressed by His Lordship Mr. Justice McEvoy that the work is one which comes under Section 6 of "The Local Improvement Act."

The Engineer, Mr. Proctor, felt that in making his assessment he should assess not only the areas reported as being assessed but also the lots on the north side of Eglinton Avenue in the Village westerly from Bathurst Street to Cheyne Avenue, but that he refrained from doing this because of the fact that the south side of Eglinton Avenue, lying outside of the Village was beyond his pale, and could not be by him assessed, and that it was to a certain extent discriminating against the north side in favour of the south side. Then he did not feel that under the Act he could assess the property known as "The Boake Lumber Company," and what is known as the property of "The Sisters of Our Lady of Charity."

The Board is of the opinion that these several properties should be assessed and Orders and directs that the lots on the north side of Eglinton Avenue, west of Bathurst Street, as far as Cheyne Avenue shall be included in the area described in Exhibit No. 1 as "Area No. 2," and that these lots shall be assessed at the same rate as the other lots in the said area, being at the rate of .73 per foot frontage; and that the property owned by the Boake Lumber Company which in Exhibit 3 is set out as "abutting" property, on Bathurst Street shall become Area "6" and shall be charged per foot frontage on Bathurst Street at 2.30 per foot; and that the property owned by the Sisters of Our Lady of Charity, lying west of Bathurst Street, now included in Area No. 1, shall become "Area No. 7," and shall be charged at a special rate per foot frontage of 2.08.

The evidence of the Engineers called by the different parties in connection with this application do not agree altogether, but this is not surprising as, in an undertaking of this kind the recommendation made by the Engineer of the Council must be his own judgment as to what he thinks must be equitable, and another Engineer going over the same work may very easily have a different opinion. By refusing to accept the opinion of the Engineer of the Village and adopting the opinion of another Engineer, I do not know that we would very much improve our situation. We therefore feel that the opinion of the Village Engineer in this instance should be adopted, particularly in view of the fact that a number of property owners, having property north of the Belt Line Railway, have personally come forward and expressed their willingness to abide by the assessment made, the more especially if the improvement is carried out extending Forest Hill Road and Whitmore Avenue to the properties in question.

But of course the assessments which the Board orders in connection with the Eglinton Avenue lots and in connection with the Boake Lumber Company property and the property of The Sisters of Our Lady of Charity should be taken off those properties in Area "E" reported by the Engineer of the Village of Forest Hill as chargeable with a special assessment of .52 per foot frontage, by reason of the fact that this property Area "E" is the furthest removed from the intended local improvement of any of the properties affected.

With these alterations the Board will give its approval.

The Corporation of course will make the necessary alterations in the assessment of the several properties.

(Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3647

Application by the City of Stratford, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 3408, amending its Restricted Area By-law No. 2740 to permit the use of Lot No. 90, Canada Company's Survey (northeast corner of Huron Street and St. Vincent Street), for the purposes of Service Station and Garage.

August 14th. Application and material filed.

Sept. 14th. Hearing, 11 A.M., Council Chamber, City of Stratford (Chairman authorized under Section 8, Chapter 225, R.S.O.).

Report of Chairman

I recommend the approval of the amending By-law.

(Sgd.) C. R. McKeown,
Chairman.

September 15th. Report adopted.
September 16th. Order.

September 16th, 1931.

Order

Upon the application of the said Corporation, and upon reading the copy of each of the said By-laws and the other material filed, and such application having come on for Hearing before the Chairman of this Board (duly authorized under Section 8, Chapter 225, R.S.O.), on the 14th day of September, A.D. 1931, at the Council Chamber, in the City of Stratford, and it appearing that notice of such Hearing was duly given as directed by the Board, and no one appearing in opposition thereto, and the Chairman of the Board having reported in favour of the approval of the said amending By-law No. 3408, and such report having been this day adopted as the basis of this Order;

The Board orders, under and in pursuance of the provisions of subsection 2 (b) of Section 398 of "The Municipal Act," that the said By-law No. 3408, intituled "By-law No. 3408 of the Corporation of the City of Stratford, being a By-law to amend By-law No. 2740," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3649

In the matter of the Petition of D'Arcy Martin, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on Melville Street, between Inverness Street and Queensdale Street, in the City of Hamilton.

August 15th. Petition filed.

September 9th. Hearing, 10.50 to 10.60 a.m., Council Chamber, Hamilton. Adjourned to September 23rd, 1921, at 10.50 a.m.

September 23rd. Hearing continued, Council Chamber, Hamilton, 10.50 a.m. to 1 p.m. Adjourned to October 13th, at 10.45 a.m., in order that two other petitions connected with the work be heard at the same time.

October 13th. Hearing continued, 10.45 a.m. to 12 m.d., Council Chamber, Hamilton. Cost of 15-inch sewer to be borne 50 per cent. by the City and 50 per cent. by the property owners.

November 4th. Approved draft Order filed.

November 4th. Order issued.

October 13th, 1931.

Order

Upon the Petition of the said D'Arcy Martin, under Section 8 of "The Local Improvement Act" against the construction by the City of Hamilton of a pipe sewer in the City of Hamilton on Melville Street, as a local improvement, and upon consideration of such petition, and the other material filed, and hearing all parties interested, and upon consideration of the evidence adduced and what was alleged by Counsel for the Petitioner and for the Corporation of the City of Hamilton:

1. This Board doth order that the property owner shall pay 50 per cent. of the cost of the work based on a fifteen-inch sewer to be assessed on foot frontage with a lot depth of one hundred feet, and that the City Corporation shall pay the balance of the cost of the said sewer, and that on these terms the work shall be proceeded with; and in all other respects the said petition is hereby dismissed.

2. And this Board doth further order that there shall be no costs of the said application to any party, except that the Corporation of the City of Hamilton shall pay $15.00 for Law Stamps on this Order chargeable to the cost of the work.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3651*a*

In the matter of the Petition of Bell C. Walkden, and others, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on Brucedale Avenue, between Wellington Street and East Fifth Street, in the City of Hamilton.

August 17th. Petition filed.

October 13th. Hearing, 10.50 A.M. to 12 M.D., at Council Chamber, Hamilton. Cost of 15-inch sewer to be borne 50 per cent. by the City and 50 per cent. by the ratepayers.

October 24th. Approved draft Order filed.

October 24th. Order.

October 13th, 1931.

ORDER

Upon the Petitions of the said Bell C. Walkden and others, under Section 8 of "The Local Improvement Act," against the construction by the City of Hamilton of pipe sewers in the City of Hamilton on East Sixth Street between Queensdale Avenue and Brucedale Avenue, on Brucedale Avenue from Wellington Street to East Fifth Street, and on Queensdale Avenue between Melville Street and Prince George Street, as local improvements, and upon consideration of such Petitions and the other material filed, and hearing all parties interested, and upon consideration of the evidence adduced and what was alleged by Counsel for the Petitioners and for the Corporation of the City of Hamilton:

1. This Board doth order that the property owners shall pay 50 per cent. of the cost of the work, such cost to be based on the cost of a 15-inch sewer as estimated to be assessed on the frontage abutting directly upon the work to a depth not to exceed one hundred and fifty feet, and that the City Corporation shall pay the balance of the total cost of the said sewers, and that on these terms the work shall be proceeded with; and in all other respects the said petitions are hereby dismissed.

2. And this Board doth further order that there shall be no costs of the said application to any party, except that the Corporation of the City of Hamilton shall pay $30.00 for Law Stamps on this Order, chargeable to the cost of the works.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3651*b*

In the matter of the Petition of Bell C. Walkden, and others, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on East Sixth Street, between Queensdale Avenue and Brucedale Avenue, in the City of Hamilton.

August 17th. Petition filed.

October 13th. Hearing, 10.50 A.M. to 12 M.D., at Council Chamber, Hamilton. Cost of 15-inch sewer to be borne 50 per cent. by the City and 50 per cent. by the ratepayers.

October 24th. Approved draft Order filed.

October 24th. Order. (See P.F. A-3651a.)

PROCEDURE FILE A-3655a

In the matter of the Petition of The Cuzner Hardware Company, Limited, and others, under Section 8 of "The Local Improvement Act," against the construction of a sidewalk on the south side of Queen Street West, from the Canadian National Railway Tracks to Lett Street, in the City of Ottawa.

August 19th. Petition filed.

September 25th. Hearing, 9.15 to 9.30 A.M., at Court House, Ottawa. Petition dismissed, on the City undertaking not to construct the work before August 1st, 1932.

September 29th. Draft Order filed.

September 29th. Order issued.

September 25th, 1931.

ORDER

The Petition of Cuzner Hardware Company, Limited, and others under Section 8 of "The Local Improvement Act," against the construction of a local improvement eight-foot concrete sidewalk on the south side of Queen Street in the City of Ottawa from Lett Street to the right-of-way of the Canadian National Railway Company, having come on to be heard before the Board at a special meeting thereof held at the City of Ottawa pursuant to appointment, on Friday, the 25th day of September, 1931, at the hour of ten o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged on behalf of the Petitioners and on behalf of the Corporation of the City of Ottawa, and upon reading the said local improvement report:

1. The Board doth order and direct that the said work should not be proceeded with prior to the first day of August, 1932, and subject to such provision the Board doth further order and direct that the said petition be and the same is hereby dismissed.

2. The Board doth order and direct that the City of Ottawa do affix Law Stamps to a value of Ten dollars to this Order in payment of the Board's tariff fee upon this Hearing.

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3655b

In the matter of the Petition of D. M. McDougall, J. J. Melville and others, under Section 8 of "The Local Improvement Act," against the construction of a sidewalk on the north side of Cooper Street, between Carter Street and the Driveway, in the City of Ottawa.

August 19th. Petition filed.

September 25th. Hearing, 9 to 9.15 A.M., at Court House, Ottawa. Petition allowed; leave to initiate again when conditions warrant.

September 29th. Draft Order filed.

September 29th. Order issued.

September 25th, 1931.

ORDER

The Petition of D. M. McDougall and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot L.I. concrete sidewalk on the north side of Cooper Street, between Cartier Street and the Rideau Canal Driveway in the City of Ottawa, having come on to be heard before the Board at a special sittings thereof held pursuant to appointment at the City of Ottawa on Friday, the 25th day of September, 1931, at ten o'clock in the forenoon

(Daylight Saving Time), upon hearing what was alleged on behalf of the Petitioners and on behalf of the Corporation of the City of Ottawa, and upon reading the said local improvement report:

1. The Board doth order and direct that the said petition be and the same is hereby allowed.

2. The Board doth further order and direct that the City of Ottawa do affix Law Stamps to the value of Ten dollars to this Order in payment of the Board's tariff fee upon this Hearing.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3657

Application by the Board of Park Management of the City of East Windsor, under Section 12 of "The Public Parks Act," for approval of its By-law No. 2, to set apart certain lands (5 12/1000 acres), being part Lot 105, Con. I, Township of Sandwich East (now in City of East Windsor), for athletic purposes and purposes of sport, exhibitions and other lawful amusements and entertainments.

August 20th. Application filed.

August 22nd. Further material filed.

September 17th. Hearing, 10 to 11.15 a.m., Council Chamber, Walkerville. Application granted; Applicant's Solicitor to draft Order.

September 18th. Draft Order filed.

September 19th. Order issued.

September 17th, 1931.

Order

Upon the application of the Board of Parks Management of the Corporation of the City of East Windsor, upon reading the affidavit of William Bowman and the copy of the said By-law No. 2 and other material filed, upon hearing what was alleged by Counsel on behalf of the said Board of Parks Management, this Board, under and in pursuance of subsection 6 of Section 12 of "The Public Parks Act," being Chapter 248, of the Revised Statutes of Ontario, 1927, hereby approves of By-law No. 2 of the Board of Parks Management of the Corporation of the City of East Windsor, setting apart for athletic purposes and purposes of sport, exhibitions and other lawful amusements and entertainments a certain parcel or tract of land set out and described in Schedule "A" to the said By-law, copy of said schedule is attached hereto.

And this Board doth direct that the said Applicant do pay the sum of $15.00 for Law Stamps on this Order.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Schedule "A"

All and singular that certain parcel or tract of land situate, lying and being in the City of East Windsor, County of Essex, Province of Ontario, containing by admeasurement five and twelve one-thousandths (5 12/1000) acres more or less, being composed of part of farm Lot 105, McNiff's survey, in the said City of East Windsor and may be more particularly described as follows: Commencing at a point in the northerly limit of the Canadian National Railway's right-of-way, said point being a distance of thirteen decimal sixty-one (13.61) feet measured easterly along the said northerly limit from its intersection with the easterly limit of George Avenue; thence southeasterly along the said northerly limit of the Canadian National Railway's right-of-way four hundred and thirty decimal five (430.5) feet to a point, said point being in the limit between farm Lots 105 and 106, thence northwesterly along the limits between Lots 105 and 106 a distance of six hundred and eighty-five decimal seventeen (685.17) feet to a point; thence westerly three hundred and sixty-nine decimal forty-two (369.42) feet to said point being twelve (12) feet distance and measured at right angles to the easterly limit of George Avenue; thence southeasterly parallel to the easterly limit of George Avenue five hundred and eighteen decimal ninety-two (518.92) feet to the place of beginning; said parcel of land being shown with red-coloured margins on plan hereto attached.

(Sgd.) C. R. McColl,
Ontario Land Surveyor.

PROCEDURE FILE A-3665

In the matter of the Petition of E. Vachon and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the west side of Carruthers Avenue, from Burnside Avenue to the southerly limit of Lot No. 5, in the City of Ottawa.

August 26th. Petition filed.

September 25th. Hearing, 9.30 to 9.45 A.M., Court House, Ottawa. Petition dismissed.

September 29th. Draft Order filed.

September 30th. Order issued.

September 25th, 1931.

ORDER

The Petition of E. Vachon and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot L.I. sidewalk on the west side of Carruthers Avenue between Burnside Avenue and the southerly limit of Lot Number Five (5) in the City of Ottawa, as a local improvement, having come on to be heard before the Board at a special sittings thereof held pursuant to appointment, at the City of Ottawa on Friday, the 25th day of September, 1931, at 10 o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged on behalf of the Petitioners and on behalf of the Corporation of the City of Ottawa, and upon reading the said local improvement report:

1. The Board doth order and direct that the said petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the Corporation of the City of Ottawa do affix Law Stamps to the value of Ten dollars to this Order in payment of the Board's tariff fee upon this Hearing.

(Sgd.) C. R. McKeown,
(Seal) *Chairman.*

PROCEDURE FILE A-3668

In the matter of the Petition of C. Laidlaw and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the south side of Cooper Street, from Elgin Street to Cartier Street, in the City of Ottawa.

August 28th. Petition filed.

September 25th. Hearing, 9.45 to 9.50 A.M., at the Court House, Ottawa. Petition dismissed.

September 29th. Draft Order filed.

September 30th. Order issued.

September 25th, 1931.

ORDER

The Petition of C. Laidlaw and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot local improvement concrete sidewalk on the south side of Cooper Street, between Elgin Street and Cartier Street in the City of Ottawa, having come on to be heard before the Board at a special sittings thereof held pursuant to appointment at the City of Ottawa on Friday, the 25th day of September, 1931, at ten o'clock in the forenoon (Daylight Saving Time), upon hearing read the said appointment, and it appearing that notice of the same had been published and served in accordance with the directions of the Board, and no one appearing on behalf of the said Petitioners:

1. The Board doth order and direct that the said petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the City of Ottawa do affix Law Stamps to the value of Ten dollars to this Order in payment of the Board's tariff fee upon this Hearing.

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3869

In the matter of the Petition of Elias Rosenthal and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the south side of Gladstone Avenue, between Bronson Avenue and Cambridge Street, in the City of Ottawa.

August 28th. Petition filed.

September 25th. Hearing, 9.50 to 10.15 A.M., Court House, Ottawa. Petition dismissed.

September 29th. Draft Order filed.

September 30th. Order issued.

September 25th, 1931.

ORDER

The Petition of E. Rosenthal and others, under Section 8 of "The Local Improvement Act," against the construction of a five-foot concrete sidewalk on the south side of Gladstone Avenue, between Bronson and Cambridge Streets, in the City of Ottawa, as a local improvement, having come on to be heard before the Board at a special sittings thereof held pursuant to appointment, at the City of Ottawa, on Friday, the 25th day of September, 1931, at 10 o'clock in the forenoon (Daylight Saving Time), upon hearing what was alleged on behalf of the Petitioners and on behalf of the Corporation of the City of Ottawa, and upon reading the said local improvement report:

1. The Board doth order and direct that the said petition be and the same is hereby dismissed.

2. The Board doth further order and direct that the Corporation of the City of Ottawa do affix Law Stamps to the value of Ten dollars to this Order, in payment of the Board's tariff fee upon this Hearing.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3672

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13305, amending its Restricted Area By-law No. 12958 in respect to the frontage and area of land for buildings on Avenue Road, north of Roselawn Avenue.

September 3rd. Application and material filed.

September 29th. Hearing, 11 to 11.40 A.M., at the Board's Chambers, Toronto. Hearing concluded; Judgment reserved.

October 20th. Judgment (verbal) delivered. Application granted.

October 21st. Draft Order filed.

October 21st. Order issued.

October 20th, 1931.

Order

The application of the Corporation of the City of Toronto, pursuant to subsection 2 (b) of Section 398 of "The Municipal Act," being R.S.O. 1927, Chapter 233, for approval of its By-law No. 13305, having come on by appointment for Hearing before this Board on Tuesday, the 29th day of September, 1931, in the presence of certain property owners affected and their Counsel, proof having been filed of due service of all notices pursuant to the said Statute and to the directions of the Board given thereunder, having heard read the said By-law and the other material filed, and having heard what was alleged by all persons present or represented before the Board, and the Board having directed that the said application stand over for judgment, and the same coming on this day for judgment, the Board having received certain further evidence:

It is ordered, under and pursuant to the aforesaid Statute that By-law No. 13305 of the Corporation of the City of Toronto, being intituled "A By-law to amend By-law No. 12958 in respect to the frontage and area of land for buildings on Avenue Road north of Roselawn Avenue," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3679

Application by the City of Ottawa, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 7201, restricting the use of land and the erection and use of buildings within the area defined in the By-law for any purpose other than that of a detached private dwelling (Charlotte and other streets).

September 10th. Application and material filed.

October 9th. Hearing, 10 to 11 A.M., Court House, Ottawa. Adjourned to November 20th, 1931, at the Court House, Ottawa.

November 20th. Hearing continued, 10 to 10.30 A.M. Adjourned, by consent, to January 8th, 1932, at 10 A.M., at the Court House, Ottawa.

December 28th. Amending By-law No. 7264 filed.

PROCEDURE FILE A-3692

In the matter of the Petition of Belle C. Walkden and others, under Section 8 of "The Local Improvement Act," against the construction of a pipe sewer on Queensdale Avenue, between Melville Street and Prince George Street, in the City of Hamilton.

September 17th. Petition (in two parts) filed.

September 22nd. Further petition filed.

October 13th. Hearing, 10.30 A.M. to 12 M.D., at the Council Chamber, Hamilton. Cost of 15-inch sewer to be borne 50 per cent. by the City and 50 per cent. by the property owners.

October 24th. Approved draft Order filed.

October 24th. Order issued. (See P.F. A-3651a.)

PROCEDURE FILE A-3693

Application by the Township of Gloucester, under Section 398 of "The Municipal Act," for approval of its By-law No. 14 (1931), being "A By-law to restrict the use of land for certain purposes within a certain area within the limits of the Police Village of Overbrook."

September 18th. Application and material filed.

November 20th. Hearing, 10 A.M.; 11 to 11.15 A.M., at the Court House, City of Ottawa. Application granted; By-law 14 (1931) approved.

PROCEDURE FILE A-3699

In the matter of the Petition of Geo. A. Kiehl, and others, under Section 8 of "The Local Improvement Act," against the construction of a 30-foot asphalt pavement on Central Avenue, from the north limit of Garrison Road to the south limit of Gilmore Road, in the Village of Fort Erie.

September 25th. Petition filed.

October 19th. Hearing, 11 A.M. to 12 M.D., Town Hall, Fort Erie. Petition granted.

PROCEDURE FILE A-3710

In the matter of the Petition of J. L. Gilhuly and Louise M. Moodie, under Section 8 of "The Local Improvement Act," against the construction of a nine-inch sewer on Clarey Avenue, from a point twelve feet east of the westerly limit of Lot 40 to a point ten feet east of the westerly limit of Lot 42, and southerly from a point twenty-five feet north to the northwest corner of Lot 45 and thence by easement through Lots 45, 46 and 50 to the south boundary of Holmwood Avenue, in the City of Ottawa.

October 5th. Petitions filed.

November 20th. Hearing, 10 A.M.; 10.30 to 11 A.M., Court House, Ottawa. Adjourned to Friday, the 8th January, 1932, at 10.30 A.M., at the Court House, Ottawa.

PROCEDURE FILE A-3717

Application by the Town of Amherstburg, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 539B, restricting to residences the use of land and the erection and use of buildings on land situate within the areas defined in the By-law.

October 13th. Application and material filed.

December 15th. Hearing, 4 to 5 P.M., Town Hall, Amherstburg. (Chairman authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF CHAIRMAN

By-law to be amended as suggested and agreed upon between parties, which being done would recommend approval.

(Sgd. C. R. McKEOWN,
Chairman.

December 16th. Report adopted.

PROCEDURE FILE A-3720

In the matter of the Petition of Alfred Loomes, A. E. Wilkin and others, under Section 8 of "The Local Improvement Act," against the construction of a pavement on Berkeley Street, between Gerrard Street and Carlton Street, in the City of Toronto.

October 14th. Petition filed.

November 17th. Hearing, 10.30 to 11.10 A.M., at Board's Chambers. Petition dismissed, but properties not to be assessed until 1934. (See Reporter's Notes.)

PROCEDURE FILE A-3723

In the matter of the Petition of The Ottawa Land Association, Ltd., and The Ottawa Electric Railway Company, under Section 8 of "The Local Improvement Act," against the construction of a 15-inch sewer on Faraday Street, from Hamilton Avenue to Holland Avenue, in the City of Ottawa.

October 14th. Petition filed.

November 10th. Hearing, 10 to 10.30 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.).

November 12th. Report of Mr. Commissioner Ellis filed.

REPORT

There being no present necessity for the proposed work I recommend that the petition be granted.

(Sgd.) J. A. ELLIS,
Commissioner.

November 12th. Report adopted.

PROCEDURE FILE A-3723a

In the matter of the Petition of The Ottawa Land Association and others, under Section 8 of "The Local Improvement Act," against the construction of 9-inch and 12-inch sewers on Hamilton Avenue, from a point 35 feet south of the south limit of Lot 1297 to the north limit of Lot 21, in the City of Ottawa.

October 14th. Petition filed.

November 10th. Hearing, 10 to 10.30 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

November 12th. Report of Mr. Commissioner Ellis filed.

REPORT

There being no present necessity for the proposed work I recommend that the petition be granted.

(Sgd.) J. A. ELLIS,
Commissioner.

November 12th. Report adopted.

PROCEDURE FILE A-3723b

In the matter of the Petition of The Ottawa Land Association, Ltd., and others, against the construction of 9-inch and 12-inch sewers on Hinton Avenue, from a point 50 feet south of the south limit of Lot 1664 to a point 40 feet north of the north limit of Lot 1405, in the City of Ottawa.

October 14th. Petition filed.

November 10th. Hearing, 10 to 10.30 A.M., Court House, Ottawa. (Mr. Commissioner Ellis authorized under Section 8, Chapter 225, R.S.O.)

November 12th. Report of Mr. Commissioner Ellis filed.

REPORT

There being no present necessity for the proposed work I recommend that the petition be granted.

(Sgd.) J. A. ELLIS,
Commissioner.

November 12th. Report adopted.

PROCEDURE FILE A-3737

Application by the City of Sudbury, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law 1401, restricting Nelson Street, from John Street to Lourdes Street, etc. (areas defined in Schedule "A" to the By-law), to detached or semi-detached residence, duplex dwelling, apartment house, school and benevolent, charitable, fraternal and educational institutions.

October 17th. Application filed.

November 23rd. Hearing, 8 P.M., City Hall, Sudbury. (Chairman authorized under Section 8, Chapter 225, R.S.O.)

Report of Chairman

Several persons appeared as to certain properties, and by consent of all parties the By-law was referred back to Council for reconsideration of paragraphs Nos. 1, 2, 4, 5 and 11 of Schedule.

Procedure File A-3727a

Application by the City of Sudbury, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 1411, repealing Section No. 6 of By-law 1132, and Section 25 of Schedule "A" to By-law 1124 (By-law 1132 amending By-law 1124).

October 17th. Application and material filed.

November 23rd. Hearing, 8 P.M., City Hall, Sudbury. (Chairman authorized under Section 8, Chapter 225, R.S.O.) Recommendation that the application be granted.

Procedure File A-3734

In the matter of Sections 56 and 59 of "The Highway Improvement Act" (Chapter 54, R.S.O. 1927), and amendments,

And in the matter of Section 28 of "The Public Works Act" (Chapter 52, R.S.O. 1927), and amendments,

And in the matter of the Claim for compensation of Eleanor Ellis in respect to the expropriation of part Lot 366, Plan M-388, L.T.O., Toronto.

October 20th. Reference filed by the Honourable the Minister of Highways.

November 30th. Subpoena issued to Claimant's Solicitors.

December 2nd. Hearing, 10.30 A.M. to 3.30 P.M., at Board's Chambers. Hearing concluded. Award reserved.

December 18th. Award issued.

Award

To all to whom these presents shall come:

The Ontario Railway and Municipal Board sends greeting.

The Department of Public Highways of Ontario having expropriated a part of Lot No. 366, Plan M. 388, L.T.O., Toronto, and pursuant to the Statute in that behalf, the Claimant having applied to The Ontario Railway and Municipal Board to fix the compensation to be paid in connection therewith, the said Board sat on Wednesday, the 2nd day of December, 1931, for the purpose of receiving evidence and hearing argument in connection with the said Claim.

The Board having fully gone into the matter has decided that the amount of compensation to be paid by the Department of Public Highways to the said

Claimant for that portion of Lot No. 366 above mentioned and expropriated as aforesaid, shall be Two Thousand Dollars ($2,000.00), with interest thereon at the rate of 5 per cent. per annum from the date of expropriation until payment, and that in addition thereto the Department of Public Highways of Ontario shall pay to the Claimant her costs of this application fixed at One Hundred and Fifty Dollars ($150.00).

In witness whereof the members of The Ontario Railway and Municipal Board have hereto set their hands and have caused to be affixed the seal of the Board this 18th day of December, A.D. 1931, at the City of Toronto, in the Province of Ontario.

(Sgd.) C. R. McKeown,
Chairman.

(Seal)

(Sgd.) A. B. Ingram,
Vice-Chairman.

(Sgd.) J. A. Ellis,
Commissioner.

Procedure File A-3735

In the matter of Sections 56 and 59 of "The Highway Improvement Act" (Chapter 54, R.S.O. 1917) and amendments,

And in the matter of Section 28 of "The Public Works Act" (Chapter 52, R.S.O. 1927), and amendments,

And in the matter of the Claim of Harry Sweeney, and his wife Florence Sweeney, in respect to the expropriation of part Lot 368, Plan M. 388, L.T.O., Toronto.

October 20th. Reference filed by the Honourable the Minister of Highways.

December 2nd. Hearing, 10.30 a.m.; 3.30 to 5 p.m., at the Board's Chambers. Hearing concluded. Award reserved.

December 18th. Award issued.

Award

To all to whom these presents shall come:

The Ontario Railway and Municipal Board sends greeting.

The Department of Public Highways of Ontario having expropriated a part of Lot No. 368, Plan M 388, L.T.O., Toronto, and pursuant to the Statute in that behalf, the Claimants having applied to The Ontario Railway and Municipal Board to fix the compensation to be paid in connection therewith, the said Board sat on Wednesday, the 2nd day of December, 1931, for the purpose of receiving evidence and hearing argument in connection with the said Claim.

The Board having fully gone into the matter has decided that the amount of compensation to be paid by the Department of Public Highways to the said Claimants for that portion of Lot No. 368 above mentioned and expropriated as aforesaid, shall be Eighteen Hundred Dollars ($1800.00), with interest thereon at the rate of 5 per cent. per annum from the date of expropriation until payment, and that in addition thereto the Department of Public Highways of Ontario shall pay to the Claimants their costs of this application fixed at One Hundred and Fifty Dollars ($150.00).

In witness whereof the members of The Ontario Railway and Municipal Board have hereto set their hands and have caused to be affixed the seal of the Board this 18th day of December, A.D. 1931, at the City of Toronto, in the Province of Ontario.

(Sgd.) C. R. McKEOWN,
Chairman.

(Seal)

(Sgd.) A. B. INGRAM,
Vice-Chairman.

(Sgd.) J. A. ELLIS,
Commissioner.

PROCEDURE FILE A-3738

Application by the Town of Port Colborne, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 123 (1931) amending its Restricted Area By-law No. 28 (1924) as amended by By-law No. 36 (1929), repealing Section 1 and substituting therefor Section set forth in the amending By-law 123 (1931).

October 21st. Application and material filed.

November 18th. Hearing, 11 to 11.20 A.M., Council Chamber, Town Hall, Port Colborne. (Vice-Chairman authorized under Section 8, Chapter 225, R.S.O.)

REPORT OF VICE-CHAIRMAN

Applicant to amend By-law 123 (1931) in regard to kind of residences that may be built and eliminate certain words in clause (*a*), after which amending By-law is to be submitted to the Board for approval.

November 19th. Report adopted.
December 8th. Copy of By-law 123 (1931) as amended, filed.
December 8th. Draft Order filed.
December 8th. Order issued.

December 8th, 1931.

ORDER

Upon the application of the said Corporation, and upon reading the affidavit of H. F. Johnston, Clerk of the said Town of Port Colborne, copy of the said By-law and the affidavit of Jeva Cook as to service of the notices under the provisions of Section 398 2 (c) of "The Municipal Act" (R.S.O. 1927, Chapter 233), and upon hearing the Solicitor for the said Corporation, no one opposing:

The Board orders, under and in pursuance of the provisions of "The Municipal Act" (R.S.O. 1927), Section 398, subsection 2 (b), that the said By-law No. 123 (1931), intituled "By-law No. 123 (1931), "A By-law of the Corporation of the Town of Port Colborne for the purpose of amending By-law No. 28 (1924)," be and the same is hereby approved.

(Seal)

(Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3752

Application by the City of Toronto, under subsection 2 (b) of Section 398 of "The Municipal Act," for approval of its By-law No. 13373, amending its Restricted Area By-law No. 12958 in respect to the erection of double duplex dwellings on Lot 35, and the rear part of Lot 34, Plan M-299, on Avenue Road.

October 29th. Application and material filed.

November 30th. Hearing, 10.30 A.M.; 11.05 to 11.30 A.M., at the Board's Chambers. By-law approved. (See Reporter's Notes for special arrangements agreed to.)

December 12th. Approved draft Order filed.

December 12th. Order issued.

December 28th. Further amending By-law 13490 filed; also Consent of Owners and draft Order.

December 29th. Order issued.

November 30th, 1931.

ORDER

The application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 13373, having come on by appointment for Hearing this day before this Board in the presence of a number of property owners affected, proof having been filed of due service of all notices pursuant to the said Statute and the directions of this Board given thereunder, upon hearing read the material filed and upon hearing what was alleged by all persons before the Board and the owner of Lot 35 and the rear part of Lot 34, Plan M-299, undertaking that his building will conform to the building line of Glenview Avenue, and all opposition to the By-law having been, following such undertaking, withdrawn,

The Board orders, under and pursuant to the said Statute, that By-law No. 13373 of the Corporation of the City of Toronto, being intituled "A By-law to amend By-law No. 12958 in respect to the erection of double duplex dwellings on Lot 35 and the rear part of Lot 34, Plan M-299, on Avenue Road," be and the same is hereby approved.

(Seal) (Sgd.) C. R. KCKEOWN,
Chairman.

December 29th, 1931.

ORDER

Upon the application of the Corporation of the City of Toronto for approval, pursuant to Section 398, subsection 2 (b), of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 13490, the Board having considered the matter at the meeting on the 30th day of November, A.D. 1931, on the application of the said Corporation for approval of its By-law No. 13373, following notice to all property owners interested pursuant to the said Statute and the directions of the Board given thereunder, which property owners are also the property owners affected by By-law No. 13490 aforesaid, and the further amendment of said By-law No. 12958 as now amended by said By-law No. 13490, having been then agreed upon by all parties before the Board, the Board having heard read the said

By-laws and the consent of Messrs. Joy and Chitty, Solicitors for property owners affected, filed, and the other material filed:

The Board orders, under and pursuant to the said Statute, that By-law No. 13490 of the Corporation of the City of Toronto, being intituled "A By-law to amend By-law No. 12958 in respect to the portion of Glenview Avenue east of Avenue Road," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3761

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its By-law 13384, being a By-law restricting to use for private detached or semi-detached residences only land and buildings on a portion of Havelock Street—on the east side between Dewson and Hepbourne Streets, and on the west side between Sylvan Avenue and Dufferin Park.

October 30th. Application and material filed.

November 30th. Hearing, 10.30 to 11 a.m. Application granted; Applicant's Solicitor to draft Order.

December 4th. Draft Order filed.

December 4th. Order issued.

November 30th, 1931.

Order

The application of the Corporation of the City of Toronto for approval, pursuant to Section 398 of "The Municipal Act," being R.S.O. 1927, Chapter 233, of its By-law No. 13384, having come on by appointment for hearing this day before this Board, in the presence of a number of property owners affected, proof having been filed of due service of all notices pursuant to the said Statute and to the directions of the Board given thereunder, upon hearing read the material filed and upon hearing what was alleged by all persons before the Board, and it appearing that there was finally no opposition to the said application:

The Board orders, under and pursuant to the said Statute that By-law No. 13384 of the Corporation of the City of Toronto, being intituled "A By-law to restrict to use for private detached or semi-detached residences only land and buildings on a portion of Havelock Street," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKeown,
Chairman.

Procedure File A-3762

Application by the City of Toronto, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 13385, restricting Sylvan Avenue to private detached or semi-detached residences.

October 30th. Application and material filed.

November 30th. Hearing, 10.30 to 11.05 a.m., at the Board's Chambers. By-law remitted to Council for consideration. Hearing adjourned to 10.30 a.m., 9th February, 1932, at the Board's Chambers. (See Reporter's Notes.)

PROCEDURE FILE A-3765a

Application by the Township of Etobicoke, under 13-14 George V, Chapter 62 ("The Township of Etobicoke Act"), for approval of its By-law No. 3870, Extension of its Water Area No. 7 (established by By-law 1623), $3,500.00.

November 2nd. Application and material filed.

November 19th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. Application granted; Applicant's Solicitor to draft Order.

November 25th. Draft Order filed.

November 25th. Order issued.

November 19th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and no one appearing in opposition to the application, and it appearing upon the application that the area described in the said By-law should be added to Water Area No. 7,

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 George V, and amendments thereto, that the said By-law 3870, intituled "By-law No. 3870, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 7, as established by By-law No. 1623, and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 7 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3765b

Application by the Township of Etobicoke, under 13-14 George V, Chapter 62 ("The Township of Etobicoke Act"), for approval of its By-law No. 3872, Extension of Water Area No. 13 (established by By-law No. 3450), $22,820.00.

November 2nd. Application and material filed.

November 19th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. Application granted; Applicant's Solicitor to draft Order.

November 25th. Draft Order filed.

November 25th. Order issued.

November 19th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and no one appearing in opposition to the application, and it appearing upon the application that the area described in the said By-law should be added to Water Area No. 13,

This Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 George V, and amendments thereto, that the said By-law 3872, intituled "By-law No. 3872, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 13, as established by By-law No. 3450, and enlargements thereof, by adding thereto the land hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 13 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3765c

Application by the Township of Etobicoke, under 13-14 George V, Chapter 62 ("The Township of Etobicoke Act"), for approval of its By-law No. 3875, Extension of Water Area No. 14 (established by By-law No. 3471), $3,900.00.

November 2nd. Application and material filed.

November 19th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. Application granted; Applicant's Solicitor to draft Order.

November 25th. Draft Order filed.

November 25th. Order issued.

November 19th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and no one appearing in opposition to the application, and it appearing upon the application that the area described in the said By-law should be added to Water Area No. 14,

This Board orders and certifies, under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 George V, and amendments thereto, that the said By-law 3875, intituled "By-law No. 3875, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 14, as established by By-law No. 3741 and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 14 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal) (Sgd.) C. R. McKEOWN,
Chairman.

PROCEDURE FILE A-3769

In the matter of the application by the Township of Etobicoke, under "The Township of Etobicoke Act, 1923" (13-14 George V, Chapter 62), for approval of its By-law No. 3880, Extension, etc., of Water Area No. 7 ($5,960.00), And in the matter of the approval of the said Corporation's By-law No. 3893.

November 5th. Application and material filed.

November 19th. Hearing, 10.30 to 11 A.M., at the Board's Chambers. At request of Applicant, Hearing adjourned to 10.30 A.M., 8th December, 1931, at the Board's Chambers. (See Reporter's Notes.)

December 8th. Hearing continued, 10.30 to 10.45 A.M. By-law No. 3893 filed (reducing area of extension—see Plan filed to-day). Application granted; Applicant's Solicitor to draft Order approving By-law 3893.

December 11th. Draft Order filed.

December 11th. Order issued.

December 8th, 1931.

ORDER

Upon the application of the said Corporation, upon reading the Notice of Application and other material filed, and public notice of the Hearing of such application having been duly given as directed by the Board, and upon hearing Counsel for the Applicant, and it appearing upon the application that the area described in the said By-law should be added to Water Area No. 7,

The Board orders and certifies under and in pursuance of the provisions of the said Act, being Chapter 62, 13-14 George V, and amendments thereto, that the said By-law 3893, intituled "By-law No. 3893, A By-law of the Municipality of the Township of Etobicoke to extend or enlarge a definite section or area of the municipality known as Water Area No. 7, as established by By-law No. 1623 and enlargements thereof, by adding thereto the lands hereinafter described and defined and to construct and extend the system of watermains and waterworks in Water Area No. 7 into the area hereinafter described for the benefit of the said area," be and the same is hereby approved.

(Seal) (Sgd.) C. R. MCKEOWN,
Chairman.

PROCEDURE FILE A-3773

Application by the Township of London, under Section 398 of "The Municipal Act," for approval of its Restricted Area By-law No. 1056, restricting both sides of Richmond Street, from Huron Street to the River Thames, for a depth of 150 feet from Richmond Street, to private residences.

November 12th. Application and material filed.

December 15th. Hearing, 11 A.M. to 2.30 P.M. (Vice-Chairman authorized under Section 8, Chapter 225, R.S.O.) List of names of owners to whom registered notices were sent, and amending By-law, to be filed. (See "Notes of Hearing.")

PROCEDURE FILE A-3802

In the matter of Section 83 of "The Assessment Act,"
And in the matter of the Appeal thereunder:

BETWEEN:

The National Trust Company, Limited, Elizabeth C. Miln, C. L. Burton and N. B. McPherson, Trustees of The Sherbourne House Club Foundation,

Appellants,

—and—

The Corporation of the City of Toronto,

Respondent.

Re No. 439 Sherbourne Street, Toronto

Buildings - -	$60,000 00
Land - - -	62,177 00

November 27th. Notice of Appeal filed.

December 21st. Subpoena issued to Appellants' Solicitor.

December 29th. Hearing, 10.30 A.M. to 12.40 P.M., at the Board's Chambers. Hearing concluded; Judgment reserved.

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	Procedure File	Plan
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Approval plan of curve, east of Humber River bridge	A-3563a	619a
Approval plan of curve and loop, west of Humber bridge	A-3563b	619b
Approval plan, realignment of track on Bloor Street, Sherbourne Street to Parliament Street	A-3703	622
Approval plan, realignment of tracks, North Yonge Railways	A-3709	623
Approval of operation of One-Man Cars on Sundays on:		
Bathurst Street Route	A-3730	
Sherbourne Street Route	A-3731	
Approval of amendment to Board's Order of November 5th, 1924 (One-Man Cars, St. Clair Avenue). (See P.F. 9588)	A-3742	
Approval special track work, St. Clair Avenue and Weston Road	A-3746	624
Approval extension of tracks on St. Clair Avenue, Weston Road to Keele Street	A-3766	625
Approval of changes to track and proposed loop, Keele Street and St. Clair Avenue	A-3766a	625a
Approval amendment to Board's Order of March 25th, 1924—One-Man Cars	8255a	
Approval amendment to Board's Order of March 5th, 1931—One-Man Cars	A-3278a	
Approval amendment to Board's Order of June 4th, 1931—One-Man Cars.	A-3455a	
Approval amendment to Board's Order of January 4th, 1924—Life Guard	A-3809	
Vaughan, Township of, et al—Agreement for purchase of portion of Metropolitan Division of Toronto and York Radial Railway	A-3281	

MORTGAGES AND DISCHARGES

(Section 47, Chapter 225, R.S.O. 1927)

Cornwall Street Railway, Light & Power Co., Ltd., et al—"Supplemental Debenture" deposited (extending time for payment of principal to December 31st, 1940)	A-3431
Hydro-Electric Power Commission of Ontario and Sandwich, Windsor & Amherstburg Railway Co.—Conveyance, dated April 23rd, 1931, deposited	A-3632a
Sandwich, Windsor & Amherstburg Railway Co.; Guaranty Trust Company of Canada and The Hydro-Electric Power Commission of Ontario—Mortgage Deed of Trust (dated July 31st, 1931), deposited	A-3658

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 304 OF "THE MUNICIPAL ACT"

(NOTE.—Abbreviation "I.C." means Irregularities Cured; Abbreviation "I" means Irregularities *Not* Cured).

Municipality	By-law No.	Purpose	Amount	Procedure File
Arnprior, Town of	939	Improvements to Water Supply System	$45,000 00	A-3331a
Arnprior, Town of	942	Bridge over Madawaska River	15,000 00	A-3456
Ayr, Village of	346	Road Improvements	22,000 00 (I.C.)	A-3633a
Almonte, Town of	788	Waterworks and Sewer Construction	50,000 00 (I.C.)	A-3654
Brampton, Town of	960 (Con.)	Local Improvements—Paving, etc.	121,593 40	A-3346
Brockville, Town of	B. 1713	Road-making Machinery	7,000 00	A-3397
Brockville, Town of	A. 1714	Suburban Roads	12,000 00	A-3398
Barrie, Town of	1275	Local Improvements—Pavements, etc.	25,569 20 (I.C.)	A-3642
Barrie, Town of	1276	Unemployment Relief Works	13,000 00 (I.C.)	A-3523a
Belleville, City of	3032	Local Improvements—Sanitary Sewer, etc.	39,795 07 (I.C.)	A-3663
Burlington, Town of	697	Waterworks Purposes	17,500 00	A-3666a
Burk's Falls, Village of	292	Unemployment Relief Works—Waterworks Construction	10,000 00	A-3421a
Collingwood, Town of	1080	Local Improvements—Sidewalks and Curbs	2,075 00 (I.C.)	A-3250
Carleton Place, Town of	1039	Waterworks and Sewerage System Extensions	17,000 00 (I.C.)	A-3302a
Cornwall, Town of	13 (1931)	Local Improvements—Granolithic Walks and Pavements	30,777 35 (I.C.)	A-3472
Cornwall, Town of	14 (1931)	Extension to Waterworks System	37,500 00	A-3407a
Colborne, Village of	554	Waterworks System	65,000 00 (I.C.)	A-3684
Chatham, City of	2379 (Con.)	Local Improvements—Sewers, etc.	120,690 71 (I.C.)	A-3722
Crowland, Township of	240 (1931)	Unemployment Relief Works—Local Improvements	20,307 12 (I.C.)	A-3690a
Carleton Place, Town of	1052	Extensions to Waterworks and Sewerage Systems	15,500 00 (I.C.)	A-3779a
Dundas, Town of	1055 (amended)	Waterworks Extensions, etc.	32,400 00 (I.C.)	A-3295
Dundalk, Village of	330	Local Improvements—Pavements	29,732 50 (I.C.)	A-3495
Dysart, Municipality of	856	Community Hall and Park	2,000 00 (I.C.)	A-3803
Etobicoke, Township of	3658	Public School Purposes, S.S. No. 3	8,000 00 (I.C.)	A-3226
Etobicoke, Township of	3661	Hydro-Electric Extensions, etc.	65,000 00 (I.C.)	A-3227
East York, Township of	1864	Public School Purposes, Union S.S. No. 8	4,000 00	A-3256
East York, Township of	2124	Local Improvements—Watermains, Waterworks Section "C"	3,584 98	A-3326
Elmira, Town of	599	Improvements, etc., to Hydro-Electric System	15,000 00	A-3264a
Etobicoke, Township of	3721	Local Improvements—Pavements	5,300 00 (I.C.)	A-3518
Essex Border Utilities Commission	56 (amended)	Watermain Extension	40,000 00 (I.C.)	A-3838
Essex Border Utilities Commission	67 (amended)	Watermain Extension	52,500 00 (I.C.)	A-3839
Essex Border Utilities Commission	74	Extension to Metropolitan General Hospital	30,000 00	A-3840
Essex Border Utilities Commission	80	Completion of Metropolitan General Hospital	26,422 69	A-3841
Fort William, City of	3197	Local Improvements—Sewers	45,019 50	A-3374
Fort William, City of	3198	Local Improvements—Sidewalks	23,163 45	A-3375
Fort William, City of	3199	Local Improvements—Pavements	48,084 00	A-3376
Fort William, City of	3200	Local Improvements—Pavements	4,164 00	A-3377

Forest Hill, Village of	533	Local Improvements—Extension of Glen Ayr Road	7,900 00	(I.C.)	A-3432
Fort William, City of	3252	Local Improvements—Sewers	62,679 00	(I.C.)	A-3705
Gravenhurst, Town of	P. 149	Exhibition Hall	10,000 00	(I.C.)	A-3219
Grimsby, Town of	682	Local Improvements—Sewers	88,000 00	(I.C.)	A-3242
Georgetown, Town of	79A.	"Park Fund Debentures"—Extension of Greenwood Cemetery	10,000 00	(I.C.)	A-3273
Glencoe, Village of	367	Completion of Waterworks System	4,000 00		A-3630a
Gloucester, Township of	8 (1928) (amended)	Drainage Work	5,126 40		A-3732c
Grimsby, Town of	693	Unemployment Relief Works—Local Improvements	49,376 81		A-3724a
Goderich, Town of	101 (1931) (Con.)	Local Improvements—Sidewalks	43,975 25		A-3855
Hamilton, City of	4139	Establishment and Equipment of Playgrounds	45,000 00	(I.C.)	A-3489
Hamilton, City of	4177	Local Improvements—Opening, etc., of Certain Streets, Owners' Portion	21,686 80	(I.)	A-3547
Hamilton, City of	4178	Local Improvements—Opening, etc., of Frid and Other Streets (City's Portion)	16,714 48	(I.)	A-3548
Hamilton, City of	4180	Local Improvements—Pipe Sewers (City's Portion)	136,079 44	(I.C.)	A-3556a
Hamilton, City of	4181	Local Improvements—Pipe Sewers (Owner's Portion)	80,567 08	(I.C.)	A-3556b
Kitchener, City of	2226	Opening, etc., of Duke Street	83,705 62		A-3585
Kitchener, City of	2213	Local Improvements—Extension of Brock Street, Sewers and Watermains	33,830 38		A-3593
Lucknow, Village of	4 (1931)	Waterworks, Repairs, etc.	65,000 00		A-3446a
Lennox and Addington, County of	571	Balance of Expenditure for Highway Construction in 1930	44,500 00	(I.C.)	A-3580
London, Township of	1060	Local Improvement—Pavement	5,578 04	(I.C.)	A-3774
Lucan, Village of	132	Local Improvement—Pavement	7,788 12	(I.C.)	A-3831
Mimico, Town of	806	Local Improvements—Watermains and Sewers	18,750 00	(I.C.)	A-3418
North Bay, City of	985	Local Improvements—Sidewalks	31,882 47	(I.C.)	A-3224
North Bay, City of	988	Collegiate Institute Purposes	285,000 00	(I.C.)	A-3241
North Monaghan, Township of	966 (Con.)	Local Improvements—Sidewalks	15,156 62	(I.)	A-3291
North Monaghan, Township of	970 (Con.)	Local Improvements—Sidewalks	15,156 62	(I.C.)	A-3291a
North York, Township of	1244 (Con.)	Local Improvements—Pavements	37,186 00	(I.C.)	A-3357
North York, Township of	1278 (Con.)	Local Improvements—Watermains	113,446 82	(I.C.)	A-3358
North York, Township of	1277 (Con.)	Local Improvements—Pavements	89,480 00	(I.C.)	A-3497
Nelson, Township of	906 (Con.)	Local Improvements—Watermain, etc.	18,265 03	(I.C.)	A-3572
North Dumfries, Township of	614 (amended)	Drainage Work	4,354 45	(I.C.)	A-3605a
Owen Sound, City of	432	Purposes of Board of Park Management	12,500 00		A-3213
Owen Sound, City of	547	Local Improvements—Sidewalks	9,102 72		A-3214
Owen Sound, City of	549	Local Improvements—Pavements	39,965 05		A-3215
Orillia, Town of	1082	Drainage and Other Works	15,000 00		A-3535a
Orillia, Town of	1083	Retreading of Roads, etc.	7,500 00		A-3536a
Orillia, Town of	1084	Unemployment Relief Works	7,500 00		A-3537a
Owen Sound, City of	591	Local Improvements—Sewers	8,046 31		A-3719
Port Colborne, Town of	90 (1930)	Local Improvements—Sanitary Sewers	299,488 01		A-3212
Port Colborne, Town of	91 (1931)	Local Improvements—Sanitary Sewers	113,803 53		A-3251

APPLICATIONS TO THE BOARD FOR VALIDATION OF BY-LAWS UNDER SECTION 304 OF "THE MUNICIPAL ACT"—CONTINUED

(NOTE.—Abbreviation "I.C." means Irregularities Cured; Abbreviation "I" means Irregularities *Not* Cured).

Municipality	By-law No.	Purpose	Amount	Procedure File
Point Edward, Village of	845	Local Improvements—Pavements	$19,744 38	A-3252
Port Stanley, Village of	732	Waterworks Extensions, etc.	8,500 00 (I.C.)	A-3284a
Port Colborne, Town of	105 (1931)	Local Improvements—Street Lighting	16,611 59	A-3310
Port Hope, Town of	1430	Local Improvements—Sewers	19,367 33	A-3349
Port Hope, Town of	1431	Local Improvements—Sewers	11,638 79	A-3350
Port Dalhousie, Village of	618	Local Improvements—Pavements	10,170 22 (I.C.)	A-3405
Port Colborne, Town of	109 (1931)	Local Improvements—Pavements, etc.	43,024 18	A-3510a
Port Colborne, Town of	110 (1931)	Local Improvements—Pavements, etc.	113,612 12	A-3510b
Port Colborne, Town of	111 (1931)	Local Improvements—Street Lighting	3,325 00	A-3510c
Port Colborne, Town of	112 (1931)	Local Improvements—Watermains	4,532 17	A-3616a
Port Colborne, Town of	114 (1931)	Local Improvements—Sanitary Sewer	3,629 74	A-3617a
Penetanguishene, Town of	741	Waterworks Purposes	6,000 00 (I.C.)	A-3646a
Penetanguishene, Town of	760	Upon Credit of Taxes in Arrears	15,000 00 (I.C.)	A-3646b
Penetanguishene, Town of	761	Unemployment Relief Works	20,000 00 (I.C.)	A-3646c
Petrolia, Town of	1376 (Con.)	Local Improvements—Sewers and Road Construction	7,495 10 (I.C.)	A-3702
Paipoonge, Township of	243	School Purposes, S.S. No. 2	6,000 00	A-3759
Rockcliffe Park, Village of	106 (Con.)	Local Improvements—Watermains	6,677 11	A-3592
Rockland, Town of	408	Waterworks Extensions	15,000 00	A-3610a
Rainy River, Town of	328	Unemployment Relief Works	6,000 00	A-3602a
Rainy River, Town of	329	Extensions, etc., to Electric Light System	15,000 00	A-3789a
Sandwich East, Township of	1339	Local Improvement—Widening of Lauzon Road	3,384 15 (I.C.)	A-3351
Sandwich, Town of	2092	Local Improvement—Resurfacing Pavement on Portion of Sandwich Street	18,097 19 (I.C.)	A-3411
Scarborough, Township of	1782	Local Improvements—Sidewalks, etc.	47,744 77 (I.C.)	A-3449
St. Catharines, City of	4014	Local Improvements—Pavements, etc.	102,006 45 (I.C.)	A-3496
Smith's Falls, Town of	2020	Local Improvement—Filtration Plant	15,000 00	A-3555
South Monaghan, Township of	436	Establishment of Telephone System	21,000 00	A-3624
Strathroy, Town of	1229	Highway Construction	11,967 15 (I.C.)	A-3626a
Strathroy, Town of	1233	Local Improvements—Pavements	14,346 70 (I.C.)	A-3659
Sandwich East, Township of	1360	Local Improvements—Unemployment Relief Works	10,109 37 (I.C.)	A-3667a
Stoney Creek, Village of	18	Local Improvements—Watermains	45,000 00	A-3707
Sombra, Township of	21 (1931)	Water Supply for Police Village of Sombra	12,000 00	A-3794
Swansea, Village of	465	Local Improvements—Storm Sewers, etc.	13,078 69 (I.C.)	A-3836
St. Catharines, City of	4045	Suburban Roads	36,000 00	A-3854a
Trafalgar, Township of	312	Local Improvements—Watermains, etc.	10,459 00 (I.C.)	A-3475
Toronto, City of	13246	Enlarging Administration Building and Site for Board of Education	322,000 00	A-3551
Trenton, Town of	1612	Local Improvements—Pavements	104,443 89	A-3559

Teeswater, Village of	4 (1931)	Waterworks Purposes	5,000 00	A-3621b
Toronto, City of	13276	Extension of Pape Avenue Sewer	24,900 00 (I.C.)	A-3631
Wheatley, Village of	207	Local Improvements—Grading, etc., of Lake Street	11,000 00 (I.C.)	A-3221
Wheatley, Village of	206	Local Improvements—Watermains, etc.	48,876 57 (I.C.)	A-3223
Windsor, City of	4041	Local Improvements—Ornamental Street Lighting	67,136 66 (I.C.)	A-3237
Westminister, Township of	974 (Con.)	Local Improvements—Sidewalks	3,481 23 (I.C.)	A-3301
Weston, Town of	603	Completion of Sewerage Construction	36,000 00 (I.C.)	A-3366
Woodstock, City of	1943 (Con.)	Local Improvements—Sewers and Pavements	51,970 10 (I.C.)	A-3386
Welland, City of	735	Local Improvements—Sidewalks	6,321 25 (I.C.)	A-3590
Windsor, City of	4069	Local Improvements—Extension of Erie and Caroline Streets	7,347 08 (I.C.)	A-3606
Windsor, City of	4070	Local Improvements—Extension of Marion Avenue	87,154 42 (I.C.)	A-3607
Waterloo, Town of	1027	Sewers	69,025 79 (I.C.)	A-3622
Waterloo, Town of	1024	Local Improvements—Pavements and Sidewalks	41,487 05	A-3623
Wyoming, Village of	3 (1931)	Highway Construction	13,232 77 (I.C.)	A-3641
Weston, Town of	627	Arbitrators' Award re Dissolution Union S.S. No. 21 (Weston and County of York)	8,000 00 (I.C.)	A-3643
York, Township of	10678	Local Improvements—Widening, etc., of Atlas Avenue	14,945 27 (I.C.)	A-3594a
York, Township of	10723	Local Improvements—Watermains	17,252 70 (I.C.)	A-3594b
York, Township of	10743	Local Improvements—Watermains	11,500 37 (I.C.)	A-3594c
York, Township of	10744	Local Improvements—Watermains	3,724 44 (I.C.)	A-3594d
York, Township of	10766	Local Improvements—Extension, etc., of Cliff Street and Methune Avenue	6,237 66 (I.C.)	A-3594c
York, Township of	10919	Local Improvements—Pavements	44,362 95 (I.C.)	A-3628

APPLICATIONS TO THE BOARD FOR APPROVAL OF BY-LAWS UNDER SUBSECTION 2 OF SECTION 399 OF THE "MUNICIPAL ACT"

Municipality	By-law No.	Purpose	Amount	Procedure File
Barrie, Town of	1265	Hydro-Electric Purposes	$21,000 00	A-3542
Burlington, Town of	697	Waterworks Extensions	17,500 00	A-3666
Elmira, Village of	599	Hydro-Electric Improvements, etc.	15,000 00	A-3264
Eramosa, Village of	7 (1931)	Hydro-Electric Extensions in Police Village of Rockwood	2,500 00	A-3682
Fort Erie, Village of	735	Waterworks Extensions	38,500 00	A-3276
Goderich, Town of	19 (1931)	Re-roofing Waterworks Building	5,500 00	A-3749
Hamilton, City of	4193	Waterworks Extensions	146,495 00	A-3462
Lindsay, Town of	1891	Waterworks Extensions	3,212 97	A-3553
Lindsay, Town of	1892	Erection of Elevated Water Tank	26,483 78	A-3554
Lindsay, Town of	1898	Waterworks Extensions	2,602 23	A-3553a
Lindsay, Town of	1899	Waterworks Extensions and Improvements	26,483 78	A-3554a
Leamington, Town of	1459	Waterworks Purposes	15,760 00	A-3825a
Leamington, Town of	1460	Extensions, etc., to Gas System	1,740 00	A-3825b
Morrisburg, Village of	547	Improvements to Electric Light and Power Plant	8,000 00	A-3325

APPLICATIONS TO THE BOARD FOR APPROVAL OF BY-LAWS UNDER SUBSECTION 2 OF SECTION 399 OF "THE MUNICIPAL ACT"

—CONTINUED

Municipality	By-law No.	Purpose	Amount	Procedure File
Niagara Falls, City of	1958	Waterworks Extensions, etc.	15,721 30	A-3545
Niagara Falls, City of	1994	Completion of Waterworks Filtration Plant, etc.	50,000 00	A-3747
Peterborough, City of	2948	Waterworks Extensions	9,000 00	A-3307
Pembroke, Town of	1363	Waterworks Purposes	9,200 00	A-3674a
Rainy River, Town of	329	Extensions and Improvements to Electric System	15,000 00	A-3789
Simcoe, Town of	869	Extensions to Electric Light and Power Distribution System	12,000 00	A-3236
Stamford, Township of	410	Hydro-Electric Extensions	50,000 00	A-3269
Southampton, Town of	822	Waterworks Purposes	5,000 00	A-3393
St. Catharines, City of	3974	Hydro-Electric Purposes	35,000 00	A-3428
St. Thomas, City of	2860	Extensions to Gas Works, etc.	130,000 00	A-3442
Smith's Falls, Town of	2020	Completion of Filtration Plant	15,000 00	A-3464
Strathroy, Town of	1228	Hydro-Electric System Improvements	20,000 00	A-3473
St. Mary's, Town of	572	Waterworks Extensions and Improvements	5,200 00	A-3515
St. Thomas, City of	2878	Two New Boilers for Gas Plant	10,000 00	A-3442a
Toronto, City of	12997	Waterworks Extensions	141,000 00	A-3282
Teeswaters, Village of	4 (1931)	Waterworks Purposes	5,000 00	A-3438
Toronto, City of	13255	Waterworks Purposes	204,000 00	A-3608
Toronto, City of	13279	Waterworks Purposes	116,000 00	A-3609
Toronto, City of	13253	Hydro-Electric Purposes	893,000 00	A-3611
Toronto, City of	13254	Hydro-Electric Purposes	1,000,000 00	A-3612
Toronto, City of	13333	Waterworks Extensions, etc.	93,000 00	A-3743
Wingham, Town of	1017 (1931)	Waterworks Improvements	8,500 00	A-3235
Weston, Town of	603	Completion of Sewerage Works	36,000 00	A-3254
Welland, City of	686	Hydro-Electric Extensions, etc.	24,000 00	A-3348
Whitby, Town of	1384	Waterworks Extensions, etc.	25,000 00	A-3389
Whitby, Town of	1385	Sewerage System Extensions	7,500 00	A-3390

MISCELLANEOUS MATTERS

ANNEXATIONS

		Procedure File
Cardinal, Village of	Annexation to of part Township of Edwardsburg (part Lots 1, 2 and 3, Con. I, and part Lots 7, 8, 9 and 10, Con. I)	A-3253
Dowling, Township of	Annexation to of part unorganized Township of Fairbank, Con. VI (Petition of Alcime Gravel, et al)	A-3467
Bridgeburg, Town of	Annexation to of Village of Fort Erie	A-3470
Windsor, City of	Annexation to of part of Township Sandwich West. (Petition C. O. Carscadden, et al)	A-3522
Hamilton, City of	Annexation to of part Township Saltfleet (Petition A. W. Roussel, et al)	A-3629
St. Thomas, City of	Annexation to of part Township Yarmouth (Petition of W. H. Trigger, et al)	A-3728

ARBITRATIONS

	Procedure File
Provincial Improvement Corporation, Ltd., vs. Department of Public Highways of Ontario—Expropriation of part Lot 1, Range 5, Kingsmill Reserve, Township Etobicoke, part road allowance between Lots F and 1, Etobicoke, and part Lot 23, Registered Plan 1176, York	A-3272
W. J. Walsh vs. Department of Public Highways of Ontario—Compensation for expropriation of part Lot 11, Con. I, N.D.S., Township of Toronto, County of Peel	A-3614
Ellis, Eleanor, vs. Department of Public Highways of Ontario—Compensation re expropriation of part Lot 366, Plan M. 388, L.T.O., Toronto	A-3734
Sweeney, Harry and Eleanor Florence, vs. Department of Public Highways of Ontario: Compensation re expropriation of part Lot 368, Plan M. 388, L.T.O., Toronto	A-3735
Smith, Harry B., vs. Department of Public Highways of Ontario—Compensation for lands expropriated in Township of Saltfleet (part Lot 26, Con. III)	A-3781
(Under section 77a of "The Highway Improvement Act," as enacted by section 6, chapter 18, O..S., 1928, and amended by section 6, chapter 17, O.S., 1929; re damages or compensation in respect of land affected, etc.).	
Devitt, W. J., vs. Department of Public Highways of Ontario—Compensation for damages re south half Lot 15, Con. VI, Township of Pickering	A-3328

ASSESSMENT APPEALS

	Amount	Procedure File
Cobalt, Town of, vs. C. Laurin; land and buildings	$51,500 00	A-3263
A. J. Freiman, Ltd., vs. City of Ottawa; land and buildings	934,575 00	A-3311
Imperial Oil, Ltd., vs. Town of Fort Frances; land and buildings. (Withdrawn)	....	A-3401
Hiram Walker & Sons, Ltd., vs. Town of Walkerville; land, buildings and business	297,450 00	A-3541
Ontario Jockey Club vs. City of Toronto; land, premises and business	1,030,412 00	A-3764
London Realty Co. vs. City of London; buildings, etc	780,000 00	A-3790
National Trust Co., Ltd., et al, vs. City of Toronto; property	122,177 00	A-3802
Gignac, F. V., vs. Township Sandwich West; land. (Withdrawn)	3,260 00	A-3810
Marentette, Denis, vs. Township Sandwich West; land	11,800 00	A-3811
Marentette, Henry, vs. Township Sandwich West; land	54,650 00	A-3812
Commercial Brokers' Corporation vs. Township Sandwich West; land. (Withdrawn)	41,125 00	A-3813
Thomas & Lane vs. Township Sandwich West; land	145,746 00	A-3814
Dow Gilbert Realty Co. vs. Township Sandwich West; land	143,000 00	A-3815
Moore, J. C., vs. Township Sandwich West; land	65,050 00	A-3816
Beals, Edward E., vs. Township Sandwich West; land	187,330 00	A-3817
Realty Development Corporation vs. Township Sandwich West; land	284,875 00	A-3818
Gundy, J. F., vs. Township Sandwich West; land	475,750 00	A-3819
Childs, Lee, vs. Township Sandwich West; land	45,925 00	A-3820

ASSESSMENT APPEALS—Continued

	Amount	Procedure File
Kinsey-Doyle Co., Ltd., vs. Township Sandwich West; land	$81,650 00	A-3821
Lingeman, Caspar, J., vs. Township Sandwich West; land	72,275 00	A-3822
Healy, Page, Chappus, Ltd. and Page & Chappus, Ltd., vs. Township Sandwich West; land	293,600 00	A-3823
Roseland Development Co. vs. Township Sandwich West; land. (Withdrawn)	99,120 00	A-3824
Pioneer Improvement Corporation, Ltd. vs. Township Sandwich West; land	11,490 00	A-3849
City of Toronto vs. Guardian Realty Company of Canada, Ltd.; land and buildings	1,593,500 00	A-3850
Guardian Realty Company of Canada, Ltd. vs. City of Toronto; land and buildings	1,593,500 00	A-3850a

BILLS (FINANCIAL)

(Referred to the Board under Rule 72 of the House)

Municipality	Bill No.	
Listowel, Town of	Bill No. 21 of 1931	A-3285
Marmora, Village of	Bill No. 52 of 1931	A-3286
Ottawa, City of	Bill No. 28 of 1931	A-3293
Etobicoke, Township of	Bill No. 16 of 1931	A-3294
Bridgeburg, Town of	Bill No. 46 of 1931	A-3300
Riverside, Town of	Bill No. 5 of 1931	A-3305
Tilbury, Town of	Bill No. 31 of 1931	A-3316
Kingston, City of	Bill No. 32 of 1931	A-3317
Hawkesbury, Town of	Bill No. 48 of 1931	A-3318
Renfrew, Town of	Bill No. 51 of 1931	A-3319
Georgetown, Town of	Bill No. 61 of 1931	A-3320
Eastview, Town of	Bill No. 66 of 1931	A-3321
Haileybury, Town of	Bill No. 68 of 1931	A-3322
Cambridge, Township of	Bill No. 69 of 1931	A-3323

BRIDGES

(By-laws approved under Section 297 (2) (e) of "The Municipal Act" (Chapter 233, R.S.O. 1927).)

	Procedure File
Peterborough, City of, By-law 2954, Reconstruction of Bethune Street Bridge over Jackson Creek, $7,000.00	A-3308

BRIDGES—RELIEF FROM REBUILDING

(Section 469 (9) of "The Municipal Act," (Chapter 233, R.S.O. 1927).)

	Procedure File
Ekfrid, Township of—"Robinson" Bridge, over Creek on River Road, through south half of Lot 3, Fifth Range, south of Longwoods Road	A-3404

DETACHMENT OF FARM LANDS FROM TOWN OR VILLAGE

(Section 21 of "The Municipal Act," (Chapter 233, R.S.O., 1927).)

	Procedure File
Penetanguishene, Town of—Detachment of farm lands of Charles E. Scott from, and annexation of same to Township of Tay	A-3785

EXTENSION OF DEBENTURE ISSUE PERIOD

(Section 296 (11) and (12) of "The Municipal Act," (Chapter 233, R.S.O. 1927).)

Municipality	By-law No.	Purpose	Amount	Procedure File
Arnprior, Town of.....	939	Waterworks extensions, etc........	$45,000 00	A-3267
Etobicoke, Township of	1532	Local improvements, watermain, etc.	1,480 00	A-3287
Etobicoke, Township of	1533	Local improvements, watermain, etc.	1,120 00	A-3288
Sarnia, City of........	1792	Watermains, etc..................	17,000 00	A-3304
London, City of.......	D-5-11	Dam in River Thames............	150,000 00	A-3339
London, City of.......	D-6-18	Police Office, site and building......	150,000 00	A-3340
North Dumfries, Township of............	614 (amended)	Drainage work..................	4,354 45	A-3605
Gloucester, Township of................	8 (1928) (amended)	Drainage work..................	5,126 40	A-3732a

EXTENSION OF TIME TO PASS BY-LAWS

(Section 288 (5) of "The Municipal Act," (Chapter 233, R.S.O. 1927).)

Municipality	By-law No.	Purpose	Amount	Procedure File
Yarmouth, Township of	1156	Franchise to Southern Ontario Gas Co., Ltd....................	....	A-3573

FIRE HALLS, FIRE ENGINES, ETC.

("The Municipal Amendment Act, 1931," Chapter 50, Section 27)

	By-law No.	Purpose	Amount	Procedure File
Windsor, City of......	——	Purchase of fire ladder and truck....	$19,400 00	A-3549

"THE (MUNICIPAL) FRANCHISES ACT"

(Section 4, Chapter 240, R.S.O. 1927)

	Procedure File
Yarmouth, Township of—Franchise to the Southern Ontario Gas Company........	A-3546

HIGHWAYS—NARROW

(Section 490 (2) of "The Municipal Act," (Chapter 233, R.S.O. 1927).)

Municipality	By-law No.	Purpose	Procedure File
Sarnia, City of...........	1871	Opening of River Street (width varying from 40 feet to 46 feet).....................	A-3342
Belleville, City of.........	3002	Laying out portion of Bay Street (width, 50 feet)...............................	A-3352
York, Township of........	10831	Extension of Pinehill Crescent (width 50 feet)	A-3370
Peterborough, City of......	——	Laying out street connecting Douglas Avenue and Chamberlain Street (width 40 feet)....	A-3463
Hamilton, City of.........	4023	Extension of East 31st Street, to Mount Hamilton Gardens and Concession Street..	A-3528
York, Township of........	11030	Opening of Wilmot Avenue (width 50 feet)..	A-3712
Hespeler, Town of.........	——	Widening of lane between Queen and Walker Streets (to width of 35 feet)............	A-3760
Hamilton, City of.........	4307	Widening of Empress Avenue at Upper James Street (width 60 feet)..................	A-3793
York, Township of........	11116	Opening of Rotherham Avenue (at width of 50 feet)...........................	A-3830
York, Township of........	11120	Extension of Caesar Avenue (at width of 55 feet)...............................	A-3832
Hespeler, Town of.........	581	Widening of lane between Queen and Walker Streets............................	A-3857

HIGHWAYS—SUBURBAN, ESTABLISHING, CLOSING, ETC.

(Section 12 of "The Planning and Development Act")
(Chapter 236, R.S.O. 1927)

	Procedure Files
York, Township of—Approval By-law 10856, closing portion of Times Road, from Roselawn Avenue to Belt Line Railway	A-3419
Forest Hill, Village of—Widening, altering the grade of and improving Bathurst Street, from Eglinton Avenue to south limit of Belt Line Railway	A-3565

INTEREST INCREASE BY-LAWS

(Approval of, Section 300 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Debenture By-law No.	Purpose	Interest Increase By-law No.	Rate	Amount	Procedure File
Ailsa Craig, Village of	308	School purposes	314	5% to 6%	$16,900 00	A-3792
Wentworth, County of	939	Highway construction	—	5% to 5½%	30,815 37	A-3801
Leeds and Grenville, County of	1319	Road construction in 1930	—	5% to 5½%	75,000 00	A-3828a
Leeds and Grenville, County of	1320	Road construction in 1931	—	5% to 5½%	75,000 00	A-3828b

INTEREST DECREASE BY-LAWS

(Approval of, Section 300 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Debenture By-law No.	Purpose	Interest Decrease By-law No.	Rate	Amount	Procedure File
Kingston, City of	9 (1931)	High School purposes	19 (1931)	5% to 4¾%	$366,803 00	A-3314
Sault Ste. Marie, City of	1414	Storm sewers	1476	5½% to 5%	15,000 00	A-3315
Erieau, Village of	83	Highway Improvements	89	6% to 5½%	15,000 00	A-3332
Fort William, City of	3192	Guarantee of bonds of McKellar General Hospital	3221	5% to 4½%	31,000 00	A-3435
Colborne, Village of	554	Waterworks System	562	5½% to 5%	65,000 00	A-3684a
Chinguacousy, Township of	572	Local improvements (road construction)	584	6% to 4¾%	......	A-3721

LEGISLATION (SPECIAL)

		Procedure File
York, Township of	Approval By-law 10776, to combine Fairbank Fire Area No. 3 with St. Clair Fire Area No. 7, to be known as "Ward One Fire Area No. 1"	A-3239
Riverside, Town of	Vs. Walkerville-East Windsor Water Commission; appeal re water rates	A-3271

LEGISLATION (SPECIAL)—CONTINUED

		Procedure File
North York, Township of, and Townships of Markham and Vaughan and Village of Richmond Hill	Approval agreement for purchase of portion of Metropolitan Division of Toronto and York Radial Railway	A-3281
Sandwich East, Township of	Vs. Walkerville-East Windsor Water Commission; appeal from new schedule of water rates	A-3303
Essex Border Utilities Commission	Consent to passing of by-law for completion of Metropolitan General Hospital ($26,422.69)	A-3422
York, Township of	Approval By-law 10869, governing location of buildings on Vaughan Road	A-3485
Eastview, Town of	Approval debenture issue, $50,000—unemployment relief works	A-3741

LICENSE FEE

(Section 411 (9) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

East Windsor, City of	Bread wagon license, By-law 1009	A-3283

LOCAL IMPROVEMENTS—OBJECTIONS AGAINST

(Section 6 of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

North York, Township of	Approval widening of Yonge Street, from Old Yonge Street to Fiftieth Avenue East	A-3402
Forest Hill, Village of	Approval widening, etc., of Bathurst Street, from Eglinton Avenue to Belt Line Railway	A-3645

LOCAL IMPROVEMENTS—PETITIONS AGAINST

(Section 8 of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

Municipality	Petitioner	Work	Procedure File
North York, Township of	H. J. Wiltse, et al	Watermain, Parkview Avenue, between Yonge and Bayview Streets	A-3255a
North York, Township of	Jonas A. Moyer, et al	Watermain, Kingsdale Avenue, between west limit Lot 399 and Bayview Street	A-3255b
North York, Township of	Margt. J. Beatty, et al	Watermain, Princess Avenue, between Dudley and Bayview Streets	A-3255c
North York, Township of	W. S. Draper, et al	Watermain, Willowdale Street, between Thirtieth Avenue East and Parkview Avenue	A-3255d
North York, Township of	A. R. Davis, et all	Watermain, Empress Avenue, between Yonge and Bayview Streets	A-3255e
North York, Township of	M. S. Anderson, et al	Watermain, Elmwood Avenue, between Yonge and Bayview Streets	A-3255f
North York, Township of	D. M. Buchell, et al	Watermain, Hillcrest Avenue, between Doris Street and Bayview Street	A-3255g

LOCAL IMPROVEMENTS—PETITIONS AGAINST—CONTINUED

Municipality	Petitioner	Work	Procedure File
North York, Township of	H. M. Platt, et al	Watermain, Hollywood Avenue, between Yonge and Bayview Streets	A-3255h
Toronto, City of	John Robertson, et al	Sewer, Palmerston Boulevard, College to Bloor Street	A-3309
Sarnia, City of	G. E. Taylor, et al	Extension of McKenzie Street, from Wellington to Ontario Street	A-3347
Toronto, City of	Josephine Small, et al	Sidewalk on Elizabeth Street, between Albert and Louisa Streets	A-3382
Toronto, City of	Donald Macdonald, et al	Pavement on Albert Street, between Bay and Elizabeth Streets	A-3383
Toronto, City of	Donald Macdonald, et al	Sidewalk, etc., on Albert Street, between Bay and Chestnut Streets	A-3383a
Toronto, City of	J. Singer Estate, et al	Sidewalk and road on Elizabeth Street, from Albert Street to Dundas Street	A-3387
Toronto, City of	Purdy, Mansell, Ltd., et al	Pavement on Elizabeth Street, from Queen Street to Albert Street	A-3391
New Toronto, Town of	T. F. Frith & Sons, Ltd., et al	Pavement on Third Street, from Birmingham Street to 165 feet north thereof	A-3417
Belleville, City of	Ella T. Bleecker, et al	Pavement on Moira Street, from Upper Bridge to Charles Street	A-3433
Barrie, Town of	Wm. Cumming, et al	Bayfield pavement, between Wellington and Dalton Streets	A-3436
Belleville, City of	A. T. Northrup Estate, et al	Pavement, North Front Street, from Moira Street to C.N.R. right-of-way	A-3441
Ottawa, City of	J. F. H. Laperriere, et al	Pavement and sidewalk on Parent Avenue	A-3477
Ottawa, City of	James A. Lount, et al	Sidewalk, east side of Bank Street, from Carling Avenue to First Avenue	A-3493
Beeton, Village of	Silas Wray, et al	Pavement on Centre Street, from Main Street to Concrete Bridge	A-3494
Hamilton, City of	Ann J. Stroud, et al	Sewer on Stroud's Lane, from Main Street to 1,380 feet southerly	A-3558
Ottawa, City of	Ottawa Land Assn	Sidewalk on east side of Harmer Avenue, from Byron Street to south limit of Lot 431	A-3569
Toronto, City of	Hannah Taylor, et al	Sidewalk on Vanauley Street, between Queen Street and Grange Avenue	A-3570
Toronto, City of	Hannah Taylor, et al	Curbs on Vanauley Street, between Queen Street and Grange Avenue	A-3570a
Toronto, City of	Hannah Taylor, et al	Pavement on Vanauley Street, between Queen Street and Grange Avenue	A-3570b
Toronto, City of	Hannah Taylor, et al	Roadway on Vanauley Street, between Queen Street and Grange Avenue	A-3571
Ottawa, City of	Marie Delorme Estate, et al	Sidewalk, north side of Somerset Street, from College Avenue to King Edward Avenue	A-3586

LOCAL IMPROVEMENTS—PETITIONS AGAINST—Continued

Municipality	Petitioner	Work	Procedure File
Ottawa, City of	F. Scrim, et al	Sidewalk north side of Catherine Street, between Bank and O'Connor Streets	A-3588
Ottawa, City of	Andrew Pritchard, et al	Re-pavement on Rideau Street, from Nelson Street to Charlotte Street	A-3589
St. Catharines, City of	A. E. Nicholson, et al	Widening and resurfacing of Queen Street, from Church Street to King Street	A-3618
Hamilton, City of	D'Arcy Martin	Pipe sewer on Melville Street, between Inverness and Queensdale Streets	A-3649
Hamilton, City of	Bell C. Walkden, et al	Pipe sewer on East Sixth Street, between Queensdale and Brucedale Avenues	A-3651
Hamilton, City of	Bell C. Walkden, et al	Pipe sewer on Brucedale Avenue, between Wellington and East Fifth Streets	A-3651a
Ottawa, City of	Cuzner Hardware Company, Ltd., et al	Sidewalk on south side of Queen Street West, from C.N.R. tracks to Lett Street	A-3655a
Ottawa, City of	D. M. McDougall, et al	Sidewalk on north side of Cooper Street, from Cartier Street to driveway	A-3655b
Ottawa, City of	E. Vachon, et al	Sidewalk on west side of Carruthers Avenue, from Burnside Avenue to south limit of Lot 5	A-3665
Ottawa, City of	C. Laidlaw, et al	Sidewalk on south side of Cooper Street, from Elgin Street to Cartier Street	A-3668
Ottawa, City of	C. Rosenthal, et al	Sidewalk on south side of Gladstone Avenue, from Bronson Avenue to Cambridge Street	A-3669
Fort Erie, Village of	Alonzo C. Mathers, et al	Sewer on Lakeshore Road, from Garrison Road southerly to village limits	A-3673
Hamilton, City of	Bell C. Walkden, et al	Pipe sewer on Queensdale Street, between Melville and Prince George Streets	A-3692
Fort Erie, Village of	Geo. Kiehl, et al	Pavement on Central Avenue, from north limit of Garrison Road to south limit of Gilmore Road	A-3699
Woodstock, City of	E. Kendall	Sidewalk and curb on Joint Street, 330 feet between Russell and Butler Streets	A-3704
Ottawa, City of	J. L. Gilhuly and L. M. Moodie	Sewer on Clarey Avenue, from 12 feet east of Lot 40 to south boundary of Holmwood Avenue	A-3710
Kingston, City of	G. L. MacKay	Sewer on Regent Street, from Macdonnell Street to Princess Street	A-3711
Fort Erie, Village of	L. Douglas, et al	Paving of Archange Street	A-3715
Campbellford, Town of	Frank Jones, et al	Watermain on Portage Street, from Garry Street to northern boundary of town	A-3716
Toronto, City of	Alfred Loomes, A. E. Wilkin, et al	Pavement on Berkley Street, between Carlton and Gerrard Streets	A-3720
Ottawa, City of	Ottawa Land Association, Ltd., et al	Sewer on Farraday Street	A-3723
Ottawa, City of	Ottawa Land Association, Ltd., et al	Sewer on Hamilton Avenue	A-3723a

LOCAL IMPROVEMENTS—PETITIONS AGAINST—Continued

Municipality	Petitioner	Work	Procedure File
Ottawa, City of	Ottawa Land Association, Ltd., et al	Sewer on Hinton Avenue	A-3723b
Toronto, City of	Toronto Builders' Supplies Division of The Gypsum Lime & Alabastine Co., Ltd., et al	Sanitary and storm sewers on west side of Don Esplanade, from Gerrard Street to Eastern Avenue	A-3725
Campbellford, Town of	C. W. Palliser, et al	Watermain on Margaret and Naseby Streets	A-3736
Midland, Town of	D. S. Pratt, et al	Pavements on Sixth Street, between Dominion Avenue and Yonge Street	A-3751
Midland, Town of	Jas. A. Potter, et al	Pavement on Hannah Street, between Queen Street and Manley Avenue	A-3771
Midland, Town of	Richard Wilson, et al	Pavement on Manley Street, between Ellen and Yonge Streets	A-3777
Aurora, Town of	B. F. Davis, et al	Installation of Sewerage System	A-3835

LOCAL IMPROVEMENTS—PART ONLY OF WORK

(Section 18 of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

Municipality	Amending By-law No.	Original By-law No.	Procedure File
Toronto, City of	12933	12361	A-3217a
Toronto, City of	12934	12783	A-3217b
Toronto, City of	12935	12318	A-3217c
Toronto, City of	12941	12782	A-3217d
Toronto, City of	12942	12783	A-3217e
Toronto, City of	12943	12518	A-3217f
Toronto, City of	12946	12596	A-3217g
Toronto, City of	12947	12590	A-3217h
Port Colborne, Town of	99 (1930)	27, 40, 49 and 54	A-3212a
North Bay, City of	986	834	A-3224a
Port Colborne, Town of	72a (1930)	35 (1929)	A-3231
Fort Erie, Village of	732	714	A-3238
York, Township of	10752	10604	A-3240
Port Colborne, Town of	72a (1930)	40 (1929)	A-3231a
Toronto, City of	12914	12590 (amended by 12657)	A-3265
Toronto, City of	12973	11058	A-3268a
Toronto, City of	12975	12318	A-3268b
Toronto, City of	12976	12783	A-3268c
Crowland, Township of	234 (1931)	233 (1931)	A-3277
Thorold, Town of	1111	1070	A-3341
Ancaster, Township of	803	801	A-3403
Toronto, City of	13134	12037	A-3423
Toronto, City of	13135	12974	A-3424
Toronto, City of	13143	12694	A-3425
Crowland, Township of	238 (1931)	233 (1931)	A-3454
St. Catharines, City of	4002	3900	A-3471a
St. Catharines, City of	4007	3956	A-3471b
St. Catharines, City of	4008	3966	A-3471c
Toronto, City of	13180	12323	A-3500
Toronto, City of	13181	12596	A-3501
Dundalk, Village of	333	314	A-3495a
Toronto, City of	13231	12962	A-3591
Toronto, City of	13286	12727	A-3634
York, Township of	10950	10386	A-3635

LOCAL IMPROVEMENT—PART ONLY OF WORK—CONTINUED

Municipality	Amending By-law No.	Original By-law No.	Procedure File
York, Township of	10972	10963	A-3635a
York, Township of	10971	10954	A-3635b
Fort William, City of	3245	3181	A-3685
Toronto, City of	13349	12817	A-3729a
Toronto, City of	13350	12937	A-3729b
Toronto, City of	13351	12827	A-3729c
Swansea, Village of	463	298	A-3740
York, Township of	11078	10965	A-3753
Toronto, City of	13395	13179	A-3844a
Toronto, City of	13437	13258	A-3844b

LOCAL IMPROVEMENTS—APPORTIONMENT OF COST

(Section 26 (3) of "The Local Improvement Act")

(Chapter 235, R.S.O. 1927)

Municipality	By-law No.	Purpose	Procedure File
North York, Township of	1090	Pavement on Jane Street, from MacDougall Avenue to centre line of Woodward Avenue	A-3280
Belleville, City of	2974	Sidewalks on portions of Henry, East Dundas and Bay Streets	A-3369a
Belleville, City of	2980	Sidewalks on portions of Brock and Campbell Streets	A-3369b
Belleville, City of	2989	Sidewalks on portion of Henry Street	A-3369c
Trenton, Town of	1611	Works authorized by By-laws 1586a and 1586b	A-3560
Strathroy, Town of	1191 and 1193 (amended by 1230)	Pavements on Albert and other streets	A-3596
Lucan, Village of	102	Pavement of Provincial Highway (beyond 20 feet)	A-3686
Leaside, Town of	285	Pavement on Bayview Avenue, from Merton Street to Eglinton Avenue	A-3689
York, Township of	11089	Pavement on Eglinton Avenue	A-3770
York, Township of	11090	Pavement on Roselawn Avenue	A-3770a

"The Ontario Railway and Municipal Board Act."

(Chapter 225, R.S.O. 1927)

	Procedure File
Hamilton, City of—Application to vary or amend the Board's Order, dated April 24th, 1931, re operation of One-Man cars, City of Hamilton	A-3574
Toronto Transportation Commission—Application for amendment of Board's Order, dated March 25th, 1924, re One-Man cars, City of Toronto	8255a
Toronto Transportation Commission—Application for amendment of Board's Order, dated March 5th, 1931, re One-Man cars, City of Toronto	A-3278a
Toronto Transportation Commission—Application for amendment of Board's Order, dated June 4th, 1931, re One-Man cars, City of Toronto	A-3455a

PARKS—SETTING ASIDE PART OF FOR ATHLETIC PURPOSES

(Section 12 of "The Public Parks Act")

(Chapter 248, R.S.O. 1927)

East Windsor, Board of Park Management of, City of—Approval By-law No. 2, setting aside 5 12/1000 acres, being part of Lot 105, Concession I, Township of Sandwich East (now in City of East Windsor)	A-3657
Elora, Village of—Setting aside a portion of "Irvine Park" for purposes of Lawn Bowling Association	A-3782

RESTRICTED AREAS—APPROVAL OF BY-LAWS ESTABLISHING

(Section 398 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Area Restricted	Procedure File
York, Township of	10742	Area bounded by Dufferin Street, west Township limit, C. N. Railway right-of-way and Castlefield Avenue	A-3211
Toronto, City of	12958	North of Roselawn Avenue and west of Rosewell Avenue	A-2958a
Gloucester, Township of	11 (1931)	"Gateville" and Smith's Crossing	A-3372
Toronto, City of	13130	Bracken Avenue	A-3400
Toronto, City of	13103	Golfdale Road	A-3409
Toronto, City of	13148	Christie Street, from Tyrrell Avenue to St. Clair Avenue	A-3426
Ottawa, City of	7081	Marlborough and other streets	A-3437
Etobicoke, Township of	3757	Portion of Township south of Lakeshore Road	A-3460
Swansea, Village of	420	Runnymede Road, north of De Forest Road	A-3465
Swansea, Village of	422	Kennedy Avenue, west side	A-3466
Toronto, City of	13184	Lytton Boulevard	A-3481
Toronto, City of	13196	St. Hilda's Avenue	A-3482
Scarborough, Township of	1785	Lakeside Avenue and other streets	A-3492
Etobicoke, Township of	3794	Lands described in by-law	A-3557
Waterford, Village of	330	Areas (2), described in by-law	A-3664
Ottawa, City of	7201	Charlotte Street, etc	A-3679
Gloucester, Township of	14 (1931)	Area within limits of Police Village of Overbrook	A-3693
Sault Ste. Marie, City of	1488	Area defined in By-law and Schedule "A" thereto	A-3708
Amherstburg, Town of	539B	Area defined in by-law	A-3717
Sudbury, City of	1401	Nelson and other streets	A-3727
Toronto, City of	13384	Havelock Street, from Dewson Street to Hepburne Street, on east side; Sylvan Avenue and Dufferin Park on west side	A-3761
Toronto, City of	13385	Sylvan Avenue	A-3762
London, Township of	1056	Richmond Street, from Huron Street to River Thames	A-3773
Toronto, City of	13407	Portion of Toronto Island	A-3788
Ottawa, City of	7275	North side of Linden Terrace	A-3856

REPEAL OR AMENDMENT OF RESTRICTED AREAS

(Section 398, subsection 2 (b) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Amending By-law No.	Original By-law No.	Area Affected	Procedure File
Forest Hill, Village of	520, 540 & 560	285	Lands south of Eglinton Avenue	A-3244
Toronto, City of	13121	4469, 6109 & 9874	Northeast corner of Bloor Street and Walmer Road	A-3388
Toronto, City of	13158	8815	53 Roxborough Street West	A-3461
Toronto, City of	13187	9874 & 11356	Southwest corner of Bloor Street and Walmer Road	A-3478
Toronto, City of	13186	8880	Part Lot 12, Plan 762, north side, Lowther Avenue	A-3483
Toronto, City of	13189	12604	Lots 7 and 8, Plan 743, north side, Gormeley Avenue	A-3484
Toronto, City of	13185	12958	Lots 179 and 180, Plan M-25, west side, Tugwell Avenue	A-3502
Toronto, City of	13188	12958	Lots 36, 37, 39 and 40, Range 2, Plan 734, north side, Roselawn Avenue	A-3503

REPEAL OR AMENDMENT OF RESTRICTED AREAS—Continued

Municipality	Amending By-law No.	Original By-law No.	Area Affected	Procedure File
Toronto, City of..........	13192	12958	Boundaries of Lot Lines..........	A-3507
Toronto, City of..........	13225	12958	Lot 180, south side, Briar Hill Avenue, and Lots 185 and 179, north side of St. Clements Avenue (Plan M-25)..................	A-3512
Forest Hill, Village of.....	568	285	Lot at southwest corner of Eglinton Avenue and Chaplin Crescent....	A-3576
Toronto, City of..........	13263	8866	Northwest corner of Bloor Street and Bedford Road..............	A-3582
Toronto, City of..........	13298	12958	West 40 feet of Lot 2, Plan M-293, north side, Courtleigh Boulevard..	A-3599
Stratford, City of.........	3408	2740	Northeast corner of Huron and St. Vincent Streets, Lot 90, Canada Company's Survey.............	A-3647
Toronto, City of..........	13305	12958	Avenue Road, north of Roselawn Avenue.......................	A-3672
Kapuskasing, Town of.....	260	80 (as amended by 92)	Lots described in by-law..........	A-3700
Port Colborne, Town of....	123 (1931)	28 (1924) and 36 (1929)	Alteration of Section 1 of By-law...	A-3738
Sudbury, City of..........	1411	1124 and 1132	Section 25 of Schedule "A" to By-law 1124, and Section 6 to By-law 1132.........................	A-3727a
Toronto, City of..........	13373	12958	Lot 35 and rear part of Lot 34, Plan M. 299, Avenue Road...........	A-3752
Toronto, City of..........	13399	13184	Lytton Boulevard, excepting lands between Yonge Street and Duplex Avenue.......................	A-3481a
Toronto, City of..........	13400	12958	Lot 35, and part Lot 34, Plan 734, Range 3, Castlefield Avenue.....	A-3786
Toronto, City of..........	13412	9411	85 Hilton Avenue................	A-3787
Toronto, City of..........	13426	12958	East half Lot 228, Plan M-25, south side, Castlefield Avenue.........	A-3800
Toronto, City of..........	13386	9285	No. 332 Spadina Road............	A-3804
Toronto, City of..........	13490	12985	Glenview Avenue, east of Avenue Road.........................	A-3752
Toronto, City of..........	13446	9188	No. 306 St. George Street.........	A-3860

SEWAGE AND SEWAGE DISPOSAL WORKS

(Section 95 of "The Public Health Act")

(Chapter 262, R.S.O. 1927)

	Procedure File
Sudbury, City of—Improvements to Sewage Disposal System....................	A-3290

SINKING FUNDS, APPROVAL OF BY-LAWS FOR INVESTMENT OF

(Section 317 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	Sinking Fund By-law	Debenture By-law	Purpose	Amount	Procedure File
Owen Sound, City of......	562	432, 547 and 549	Local improvements, etc..	$61,567 77	A-3216
Arnprior, Town of.........	982	939	Waterworks extensions, etc.	45,000 00	A-3331

SINKING FUNDS, APPROVAL OF BY-LAWS FOR INVESTMENT OF—CONTINUED.

Municipality	Sinking Fund By-law	Debenturs By-law	Purpose	Amount	Procedure File
Brockville, Town of	B-1715	B-1713 and 1714	Roadmaking machinery and suburban road construction	$19,000 00	A-3399
Arnprior, Town of	983	942	Bridge over Madawaska River	15,000 00	A-3456a
Owen Sound, City of	594	586, 587 and 591	Unemployment Relief Works and Local Improvements	23,162 18	A-3718
St. Catharines, City of	——	4045 and 4054	Construction of Suburban Roads and Unemployment Relief Works	147,000 00	A-3854

TAX RATE

APPROVAL FURTHER DEBT, ETC., WHERE TAX RATE TOO HIGH

(Section 306 (2) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

Municipality	By-law No.	Purpose	Amount	Procedure File
York, Township of	——	Service Sewer, Eglinton Avenue	$31,000 00	A-3220
Grimsby, Town of	681	Sewage Disposal Plant	35,310 00	A-3225
Niagara, Town of	963	Sewer	9,000 00	A-3257
York, Township of	——	Local Improvements—Sewers and Watermains	58,739 50	A-3274
Port Stanley, Village of	732	Waterworks Extensions, etc	8,500 00	A-3284
Carleton Place, Town of	1039	Waterworks and Sewage System Extensions	17,000 00	A-3302
Cobourg, Town of	——	Purchase of Fire Pumper	6,500 00	A-3345
Port Hope, Town of	1430	Local Improvements—Sewers	19,367 33	A-3349a
Port Hope, Town of	1431	Local Improvements—Sewers	11,638 79	A-3350a
Simcoe, Town of	890	Storm Sewer, Grove Street, etc.	8,108 13	A-3381a
Simcoe, Town of	891	Improvements to Sewerage System and Plant	22,835 45	A-3381b
Simcoe, Town of	892	Waterworks Extensions, etc	35,600 81	A-3381c
Port Hope, Town of	1437	Local Improvements—Pavement and Sewers	5,315 83	A-3392
Simcoe, Town of	869 (amended)	Extension to Electric Light and Power System	12,000 00	A-3236a
Port Colborne, Town of	105 (1931)	Local Improvements—Street Lighting	16,611 59	A-3310a
Renfrew, Town of	1236	Consolidation of Floating Debt	65,000 00	A-3413
Burk's Falls, Village of	——	New Water Supply System	12,000 00	A-3421
Lucknow, Village of	4 (1930)	Waterworks Improvements, etc.	65,000 00	A-3446
Port Hope, Town of	1439	Local Improvements—Pavements	13,505 93	A-3447
Scarborough, Township of	1774	Local Improvements—Sidewalks	42,526 96	A-3450
Scarborough, Township of	1775	Local Improvements—Curbs and Gutters	5,217 81	A-3451
Scarborough, Township of	1777	Local Improvements—Pavements	65,887 15	A-3452
Scarborough, Township of	1781	Local Improvements—Grading	8,940 85	A-3453
Kenora, Town of	1052	Local Improvements—Road Widening, etc	35,000 00	A-3457a
Trafalgar, Township of	312	Local Improvements—Watermain, etc	10,459 00	A-3475a
Hanover, Town of	——	Activated Sludge Sewage Disposal Plant	25,000 00	A-3487
Thorold, Town of	1116	Local Improvements—Pavements	115,358 75	A-3490
Bracebridge, Town of	560	Local Improvements—Pavements, etc	44,577 45	A-3499

TAX RATE—Continued

Municipality	By-law No.	Purpose	Amount	Procedure File
Port Colborne, Town of....	109	Local Improvements—Pavements, etc.	$43,024 18	A-3510a
Port Colborne, Town of....	110	Local Improvements—Pavements, etc.	113,612 12	A-3510b
Port Colborne, Town of....	111	Local Improvements—Street Lighting	3,325 00	A-3510c
Haileybury, Town of.......	763	Consolidation of Floating Debt...	70,000 00	A-3511
Riverside, Town of........	304	Repairs to Certain Trunk Sewers	13,500 00	A-3513
Trenton, Town of.........	1612	Local Improvements—Pavements	104,443 89	A-3561
York, Township of........	——	Local Improvements—Pavements, Sidewalks, etc.	349,947 00	A-3564
Leaside, Town of..........	260	Outlet Sewer	28,551 68	A-3566
Sturgeon Falls, Town of....	677	Sewers—(Corporation's Share)...	45,000 00	A-3581a
Rockland, Town of........	408	Waterworks Extensions, etc......	15,000 00	A-3610
Port Colborne, Town of....	112 (1931)	Local Improvements—Watermains	$4,532 17	A-3616
Port Colborne, Town of....	114 (1931)	Local Improvement—Sanitary Sewer	3,629 74	A-3617
Teeswater, Village of......	4 (1931)	Waterworks Purposes	5,000 00	A-3621a
Caledonia, Township of....	115	Drainage Works—"Urquhart Drain"	19,620 48	A-3625
Strathroy, Town of........	1229	Highway Construction	11,967 15	A-3626
York, Township of........	——	Sewers, etc.—Laxis Avenue, etc...	53,769 19	A-3627
Glencoe, Village of.........	367	Completion of Waterworks System	4,000 00	A-3630
Ayr, Village of............	346	Road Improvements	22,000 00	A-3633
Almonte, Town of.........	788	Waterworks and Sewer Systems..	50,000 00	A-3654a
Penetanguishene, Town of..	741	Waterworks Purposes	6,000 00	A-3646e
Penetanguishene, Town of..	760	Upon Credit of Taxes in Arrears..	15,000 00	A-3646f
Penetanguishene, Town of..	761	Unemployment Relief Works....	20,000 00	A-3646g
Pembroke, Town of........	1363	Waterworks Purposes	9,200 00	A-3674
Pembroke, Town of........	1368	Unemployment Relief Works....	26,592 72	A-3691
York, Township of........	——	Watermain, etc., Little Boulevard, etc.	74,654 00	A-3694
Burlington, Town of.......	697	Waterworks Extensions	17,500 00	A-3701
York, Township of........	——	Sidewalks, etc., Gloucester Grove, etc.	239,625 00	A-3714
Gloucester, Township of....	8 (1928) amended by 15 (1930) and 17 (1931)	Drainage Work	5,126 40	A-3732b
York, Township of........	——	Local Improvements—Sewers, etc.	309,773 00	A-3744
Thorold, Town of.......	1142, 1143, 1144, 1145, 1146, and 1147	Local Improvements—Sewers....	19,352 94	A-3758
Carleton Place, Town of....	1052	Extensions to Waterworks and Sewerage Systems	4,000 00	A-3779
Brantford, City of.........	2196	Canadian National Railway Subway	75,000 00	A-3845
Brantford, City of.........	2266	City Hall and General Hospital Improvements	64,500 00	A-3846a
Brantford, City of.........	2294	Guarantee of Bonds, Brantford Industrial Co., Ltd.	68,000 00	A-3846b
Brantford, City of.........	2300	Maturing Instalments of Principal Payable in 1931 on Outstanding Debentures	30,000 00	A-3846c
Brantford, City of.........	2301	Local Improvements	134,964 00	A-3846d
Brantford, City of.........	2302	Local Improvements	10,603 00	A-3846e
York, Township of........	——	Local Improvement—Sidewalk, Porter Avenue	856 00	A-3848
Brantford, City of.........	2303	Unemployment Relief Works....	89,600 00	A-3847a

"THE UNEMPLOYMENT RELIEF ACT (ONTARIO), 1931"

(Section 4, Subsection 2)

Municipality	By-law No.	Purpose	Amount	Procedure File
Harwich, Township of	2736	Drainage Work	$36,000 00	A-3406
Cornwall, Town of	14 (1931)	Extensions to Waterworks Distribution System	37,500 00	A-3407
Guelph, City of	2089	Cleaning Bed of River Speed, etc.	51,250 00	A-3410
Southampton, Town of	824	Road Work, Huron and Lake Streets	4,000 00	A-3439
Belle River, Village of	6 (1931)	Waterworks Extensions	8,500 00	A-3443
Kenora, Town of	1052	Road Widening, etc.	35,000 00	A-3457
Fort Frances, Town of	1044	Waterworks Extensions and Improvements	57,450 00	A-3458
Tecumseh, Town of	349	Drainage Work	14,626 16	A-3459
Uxbridge, Town of	896	Watermains	2,030 00	A-3491
Smith's Falls, Town of	2003	Local Improvement—Sewer	1,027 67	A-3505a
Smith's Falls, Town of	2004	Local Improvement—Sewer	339 50	A-3505b
Smith's Falls, Town of	2005	Local Improvement—Sewer	6,175 00	A-3505c
Smith's Falls, Town of	2006	Local Improvement—Sewer	605 00	A-3505d
Smith's Falls, Town of	2007	Local Improvement—Sewer	1,641 32	A-3505e
Smith's Falls, Town of	2008	Local Improvement—Sewer	385 00	A-3505f
Smith's Falls, Town of	2009	Local Improvement—Sidewalk	240 00	A-3505g
Smith's Falls, Town of	2010	Local Improvement—Sidewalk	132 00	A-3505h
Smith's Falls, Town of	2011	Local Improvement—Sidewalk	49 80	A-3505i
Smith's Falls, Town of	2012	Local Improvement—Sidewalk	317 36	A-3505j
Smith's Falls, Town of	2013	Local Improvement—Sidewalk	48 00	A-3505k
Smith's Falls, Town of	2014	Local Improvement—Sidewalk	437 50	A-3505l
Smith's Falls, Town of	2019	Road Construction	1,521 59	A-3508
Thessalon, Town of	——	Hydro-Electric Power Plant Construction	22,000 00	A-3514
Penetanguishene, Town of	761	Cement Walks, etc.	20,000 00	A-3521
Barrie, Town of	——	Storm Sewers	13,000 00	A-3523
Midland, Town of	1282	Park Improvements, etc.	31,500 00	A-3532
Woodstock, City of	1947	Sewers	55,000 00	A-3534
St. Thomas, City of	2862	Sewers	10,000 00	A-3538
Rockland, Town of	408	Waterworks Extensions, etc.	15,000 00	A-3540
Smith's Falls, Town of	2022	Local Improvements—Sidewalks and Sewers	11,398 15	A-3543
Gananoque, Town of	899	Town's Share of Cost of Certain Works under Agreement	10,500 00	A-3544
Pembroke, Town of	——	Corporation's Share of Cost of Duplicate Watermain	26,592 72	A-3579
Sturgeon Falls, Town of	677	Corporation's Share of Cost of Sewers	45,000 00	A-3581
Chesterville, Village of	516	Watermains, Hydrants and Sewer	5,600 00	A-3587
Rainy River, Town of	328	Waterworks Intake Pipe	6,000 00	A-3602
Niagara Falls, City of	1973	Watermains—City's Portion	15,721 30	A-3619
Fort Frances, Town of	1052	Local Improvements—Sewers	4,350 00	A-3620a
Fort Frances, Town of	1053	Local Improvements—Pavement, etc.	12,200 00	A-3620b
Ingersoll, Town of	——	Grading of Sewer, etc.	7,500 00	A-3640
Bracebridge, Town of	563	Grading of Roads, etc.	5,000 00	A-3648
Campbellford, Town of	——	Local Improvements—Sewers and Watermains	7,000 00	A-3650
Dunnville, Town of	5 (1931)	Road Construction, etc.	6,000 00	A-3656
Sandwich East, Township of	1360	Local Improvements—Sewers	10,109 37	A-3667
Owen Sound, City of	586	Grading, etc., of Third Avenue West	3,329 09	A-3677
Owen Sound, City of	587	Widening of Tenth Street West Hill	11,786 78	A-3678
Niagara Falls, City of	1981	Cemetery Grading, etc.	35,000 00	A-3680
Stamford, Township of	436 (1931)	Local Improvements—Watermains and Sidewalks	32,615 67	A-3681a
Stamford, Township of	437 (1931)	Local Improvements—Sewers	15,116 35	A-3681b
Stamford, Township of	438 (1931)	Local Improvements—Waterworks Extensions	12,495 96	A-3681c
Crowland, Township of	240 (1931)	Local Improvements—Sewers	20,307 12	A-3690
Maxville, Village of	597	Widening and Draining of Certain Streets	6,750 00	A-3697

"THE UNEMPLOYMENT RELIEF ACT (ONTARIO), 1931"

Municipality	By-law No.	Purpose	Amount	Procedure File
Stoney Creek, Village of....	18	Watermains..................	45,000 00	A-3698
Grimsby, Town of.........	693	Local Improvements—Sewers....	49,376 81	A-3724
Peterborough, City of......	——	Local Improvements—Storm Drain, etc., Corporation's Share	80,000 00	A-3726
Fenelon Falls, Town of.....	——	Sidewalks.....................	1,127 04	A-3737a
Fenelon Falls, Town of.....	——	Street Improvements—Corporation's Share..................	2,317 92	A-3737b
St. Thomas, City of........	2891	Gas Works....................	6,000 00	A-3745
Kingston, City of..........	44 (1931)	Construction of Breakwater, etc..	57,000 00	A-3748
Thorold, Town of..........	1142	Local Improvements—Sidewalks.	1,307 10	A-3754
Thorold, Town of..........	1144	Local Improvement—Sanitary Sewer......................	756 48	A-3755
Thorold, Town of..........	1145	Local Improvements—Pavements	10,674 64	A-3756
Thorold, Town of..........	1146	Local Improvements—Pavements	2,764 97	A-3757
St. Catharines, City of.....	——	Street Widening, Sewer, etc......	111,000 00	A-3767
Milton, Town of..........	638	Storm Sewers..................	9,000 00	A-3775
Dresden, Town of.........	——	Watermain Extension, etc.......	2,133 90	A-3778
Peterborough, City of......	——	Storm Drains, Paving, etc.......	70,000 00	A-3791
Niagara, Town of.........	——	Tree Trimming and Roadwork...	19,800 00	A-3797
Fort William, City of......	3263	Construction of Watermains.....	27,575 00	A-3826a
Fort William, City of......	3264	Widening Portion of Mission Road	33,250 00	A-3826b
Collingwood, Town of......	——	Stone Crushing, etc.............	25,000 00	A-3829
Lindsay, Town of.........	1906	Road Improvements, etc...	16,095 67	A-3833a
Lindsay, Town of.........	1907	Sewage Disposal Works.........	6,573 74	A-3833b
Kitchener, City of.........	——	Improvements to Freeport Sanitarium (City's Share).........	65,000 00	A-3851
Leamington, Town of......	1463	Watermains, etc................	5,597 25	A-3852

(POLICE) VILLAGES—FORMATION OF

(Sections 514 (3) and 517 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

	Procedure File
Lash, Township of—District known as "Village of Emo" into Police Village of Emo. (Petition of L. W. Loney, et at).................................	A-3218
Earlton, Township of—Portion of 490 Acres into Police Village of Earlton. (Petition of J. C. Bergeron, et al.)....................................	A-3379

WAR MEMORIALS AND PATRIOTIC OBJECTS

(Section 396, subsection (30), of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

	Procedure File
Long Branch, Village of—Erection of Monument at Corner of Long Branch Avenue and Park Road ("Fountain Square")..................................	A-3837

WARDS

Division of Cities, Etc., Into

(Section 44 of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

	Procedure File
Toronto, City of—Redivision of Wards 2 and 3..............................	A-3262
Hamilton, City of—Redivision of, into Eight Wards..........................	A-3600

WATERWORKS

		Procedure File
Etobicoke, Township of	Approval By-law 3694—Extension of Water Area No. 7	A-3289
East York, Township of	Approval By-law 1919—Construction of Watermain in Waterworks Section "C"	A-3329
East York, Township of	Approval By-law 2110—Construction of Watermain in Waterworks Section "F"	A-3330
Scarborough, Township of	Approval By-law 1766—Construction of Sewage Disposal Works, Sewers, etc., in Combined Sewerage Area No. 1 ($104,063.18)	A-3333
East York, Township of	Approval By-law 2146—Construction of Watermain in Waterworks Section "C" ($5,389.55)	A-3380
Etobicoke, Township of	Approval By-law 3793—Extension of Water Area No. 14	A-3550
Etobicoke, Township of	Approval By-law 3841—Extension of Water Area No. 3	A-3652
East York, Township of	Approval By-law 2300—Construction of Watermain in Waterworks Section "C"	A-3706
Etobicoke, Township of	Approval By-law 3870—Extension of Water Area No. 7	A-3765a
Etobicoke, Township of	Approval By-law 3872—Extension of Water Area No. 13	A-3765b
Etobicoke, Township of	Approval By-law 3875—Extension of Water Area No. 14	A-3765c
Etobicoke, Township of	Approval By-law 3880—Extension of Water Area No. 7	A-3769
East York, Township of	Approval By-law 2352—Construction of Watermain in Waterworks Area "C"	A-3798a
East York, Township of	Approval By-law 2353—Construction of Watermain in Water Area "C"	A-3798b
East York, Township of	Approval By-law 2345—Purchase of Property for Operation, etc., of Waterworks System	A-3853

WORKS ORDERED BY DOMINION AND ONTARIO RAILWAY BOARDS

(Section 297 (2) (f) of "The Municipal Act")

(Chapter 233, R.S.O. 1927)

(As Enacted by Section 18, Chapter 50, Ontario Statutes, 1931)

		Procedure File
Oshawa, City of	Canadian National Railway Subway at Simcoe Street South ($65,000.00)	A-3575
East York, Township of	Grading of Lands East of Woodbine Avenue and South of the Canadian National Railway Right-of-Way	A-3783
Weston, Town of	Subway under Canadian National Railway Tracks at Weston Road ($10,000.00)	A-3784

PLANS OF LAND SUBDIVISIONS

Approved by the Board under "The Planning and Development Act," "The Land Titles Act" and "The Registry Act"

Owner	Description	Procedure File
Abernott, Eugene	Part north half of Lot 11, Con. IV, Township of Striker, District of Algoma	A-3243
Bertram Realty Co., Ltd.	Parts Lots 8, 9 and 19, Con. VII, Township of Vaughan, County York	A-3360
Bathurst Homes Development, Ltd.	Part Township Lot 13, Con. II, west of Yonge Street, Township and County of York	A-3480
Brown, R. R.	Part Mining Claims L. 2490, L. 6526 and L. 6527, Township of Teck, District of Temiskaming	A-3739
Corner, Egerton G.	Part Lots 23 and 24, Con. VII, Township of Georgina, County of York	A-3415

PLANS OF LAND SUBDIVISIONS—Continued

Owner	Description	Procedure File
Davis, Thomas A., et al	Part of Lot 14, Con. VI, Township of Grantham, City of St. Catharines	A-3562
Davis, Richard	Part of Broken Lot 1, Con. XVIII, Township of Harvey, County of Peterborough	A-3578
Fournier, R. M.	Part of Lot 6, Broken Front Concession, Township of Tilbury North, County of Essex	A-3336
Franklin, Charles	Re-subdivision of Lots 5 to 11 (inclusive), Registered Plan No. 49, Township of Stamford, County of Welland	A-3527
Featherstone, Jos. A	Part of Lots 11 and 12, Con. I, Township of Rainham, County of Haldimand	A-3653
Gilchrist, Jas. W.	Northeast quarter and northwest quarter of Lot 15, Con. I, Township of Huntley, County of Carleton	A-3261
Gallie, Thos. Oliver	Part of Lot 5, Front Concession, Township of Sarnia, County of Lambton	A-3613
Holst, Leonard	Plan of Location S. 969, amending plan of subdivision filed as Plan M. 151, Land Titles Office, Kenora	A-3292
Holmes, Alex. B.	Part of Lot 27, Registered Plan 83, Township of Etobicoke, County of York	A-3601
Kitchener, City of	Part of Lot 2, German Company Tract, City of Kitchener	A-3306
Korman, D.	Part of Lot 11, Con. V, Township of Evanturel (Englehart Townsite), District of Temiskaming	A-3356
Kitching, Geo.	Part of Broken Lot 18, Con. VIII, Township of Tiny, County of Simcoe	A-3517
Kirkland, Hudson Bay Gold Mines, Ltd	Part of Mining Claims L-2553 and L-1403, Township of Teck, District of Temiskaming	A-3577
Kettle, Arthur	North part of Lot 7, Front Concession, Township of Sarnia, County of Lambton	A-3799
Marantette, Henry	Alteration and Amendment of part Registered Plan 1338, Township of Sandwich West, County of Essex (part of Farm Lot 66, Con. III)	A-3440
McDonald, Murdock P.	Part of Broken Lot 15, Con. I, Township of Mara, County of Ontario	A-3524
McKay, Donald	Part of Lot 16, Con. "C," Township of Mara, County of Ontario	A-3525
Ormsby, J. Y.	Lots 3 to 7 (both inclusive) and part of Lot 2, Plan 1860 (York), Village of Forest Hill, County of York	A-3408
Peacock, Tom. Percy	L.K. 170, near McIntosh, District of Kenora	A-3827
Pilon, Octave, Sr., et al	Part of Broken Lot 18 and all Lot 19 and all Sideroad between Lots 18 and 19, Con. VII, Township of Tiny, County of Simcoe	A-3834
Quesnelle, Andre	Part of south 55 acres of north half of Lot 4, Con. XVI, Township of Tiny, County of Simcoe	A-3639
Rideout, Mary Elizabeth	Locations C.R. 25 and 292E, amending plan of subdivision filed as Plan M. 173, Land Titles Office, Kenora	A-3270
Stuart, Wm. C., Estate of	Part of Lot "A," east of Belle River, Village of Belle River, County of Essex	A-3335
Savinac, Geo. T.	Part of Broken Lot 23, Con. XI, Broken Lot 23, Con. XII, and part intervening Concession Road allowance, Township of Cartwright, County of Victoria	A-3733
Trick, W. J.	Part of Lot 9, Con. II, Township of East Whitby (City of Oshawa), County of Ontario	A-3498
Weymouth Gardens, Ltd	Part of east half of Lot 14, Con. II, east of Yonge Street, Township and County of York	A-3296

PLANS OF LAND SUBDIVISIONS—Continued

Owner	Description	Procedure File
York, County of	Part of Lot 31, Concession "B," fronting Humber River, Township of Etobicoke, County of York	A-3552
Young Men's Christian Association (of City of St. Catharines)	Part of Lot 18, Con. VI, Township of Grantham (now in City of St. Catharines), County of Lincoln	A-3687

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"

		Procedure File
Arran, Municipality of	Approval extension of time to pass Debenture By-law for establishment of Municipal Telephone System	A-3327
Aylmer & Malahide Telephone Co., Ltd	Parallelling of lines of Harrietsville Telephone Association, Ltd., for furnishing of service to Ralph Herbert, et al	A-3363
Aylmer & Malahide Telephone Co., Ltd., vs. Houghton & Bayham Telephone Co., Ltd	Complaint as to charges from Port Burwell to points beyond Vienna	A-3373
Arran, Municipality of	Approval By-law No. 14, 1931, issue of debentures to meet cost of establishing Arran Municipal Telephone System	A-3448
Aylmer & Malahide Telephone Co., Ltd	Approval of agreement for interchange of service between South Malahide Telephone Co., Ltd., and Malahide & Bayham Telephone Association, Ltd	A-3506
Aylmer & Malahide Telphone Co., Ltd	Agreement for interchange of service with The Harrietsville Telephone Association, Ltd	A-3695
Bell Telephone Company of Canada, Ltd	Approval of purchase from by Waterloo Municipal Telephone System of certain telephone plant, etc., in Village of Doon, Township of Waterloo	A-3230
Bell Telephone Company of Canada, Ltd	Approval of purchase of certain telephone plant and equipment of by Township of Hay	A-3245
Bell Telephone Company of Canada, Ltd	Approval of purchase of certain telephone plant and equipment of by Township of Wilmot	A-3246
Brant, Township of	Approval By-law No. 116—Use of highways to the Central Brant Telephone Co., Ltd	A-3249
Brunel, Township of	Approval By-law No. 375—Use of highways to The Muskoka & Parry Sound Telephone Co., Ltd	A-3275
Bell Telephone Company of Canada, Ltd	Connection with Scarborough Independent Telephone Co., Ltd.—J. B. Tyrrell vs. Scarborough Independent Telephone Co., Ltd	A-3313
Brown, Geo. P., vs. Caradoc-Ekfrid Telephone Co., Ltd., et al	Service to, and parallelling of, lines of Geo. McKenzie for that purpose	A-3338
Bromley, Township of	Approval By-law No. 422—Use of highways to Cobden Rural Telephone Co., Ltd	A-3355
Bell Telephone Company of Canada, Ltd	Approval purchase from, by Municipality of Dawn of telephone plant, etc., located on Provincial Highway No. 26, from limits of Village of Oil Springs to Eddy's Mills, County of Lambton	A-3533

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—Continued

		Procedure File
Burnt River Telephone Co., Ltd.	Approval Agreement for interchange of service with telephone system of Municipality of Somerville	A-3763
Bell Telephone Company of Canada, Ltd.	Approval of purchase from, of certain telephone plant and equipment by Tilbury East Municipal Telephone System	A-3807
Burpee, Municipality of	Approval agreement for interchange of service with Manitoulin & North Shore Telephone and Telegraph Co. and Robinson Rural Telephone Co., Ltd.	A-3842
Beeton Telephone Co., Ltd.	Expenditure of portion of depreciation fund on new construction and extensions	A-3843
Burpee, Township of	Approval Debenture By-law No. 231—Establishment of telephone system under Part II of "The Telephone Act"	A-3858
Chapple, Municipality of	Extension Municipal Telephone System from northern boundary of Municipality to Clearwater Lake, District of Rainy River	A-3247
Central Brant Telephone Co., Ltd.	Approval By-law 116—Township of Brant, granting use of highways to	A-3249
Caledon, Township of	Approval By-law 952—Improvements to Municipal Telephone System	A-3297
Chapleau Telephone System	Approval By-law re control and management of undertaking of	A-3324
Caradoc-Ekfrid Telephone Co., Ltd., et al, vs. Geo. D. Browne	Service and parallelling of lines of Geo. McKenzie for that purpose	A-3338
Coldstream Telephone System	See "McKenzie, Geo."	
Cobden Rural Telephone Co., Ltd.	Approval By-law 38, Township of Stafford—Use of highways to	A-3354
Cobden Rural Telephone Co., Ltd.	Approval By-law 422, Township of Bromley—Use of highways to	A-3355
Cramahe Municipal Telephone System	Approval agreement for free interchange of service with telephone system of Municipality of Haldimand	A-3412
Calabogie & Renfrew Telephone System (M. J. O'Brien, Ltd.)	Approval agreement for interchange of service with Forestry Branch of Department of Lands and Forests	A-3469
Chippawa Rural Telephone Co., Ltd.	Approval By-law 456, Township of Camden—Use of certain highways to	A-3539a
Chippawa Rural Telephone Co., Ltd.	Approval By-law 4 (1931), Township of Hinchinbrooke—Use of certain highways to	A-3539b
Chippawa Rural Telephone Co., Ltd.	Approval By-law 13 (1930), Township of Portland—Use of certain highways to	A-3539c
Camden, Township of	Approval By-law 456—Use of certain highways to Chippawa Rural Telephone Co., Ltd.	A-3539a
Caistor, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615c
Canboro, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615d
Coe Hill Rural Telephone System	Approval of sale of equipment, etc., of, by W. N. Gilroy, et al, to Geo. Poff	A-3671
Caradoc-Ekfrid Telephone Co., Ltd.	Approval By-laws re control and management of its undertaking	A-3675
Carlow, Municipality of	Agreement for interchange of service with People's Telephone & Telegraph Co., Ltd., et al	A-3772
Chapple, Municipality of	Approval By-law 478—Debenture issue re extensions, etc., to Chapple Municipal Telephone System	A-3806
Dawn Municipal Telephone System (Commissioners for), vs. Webster, J. M.	Remuneration for services to be paid to J. M. Webster	A-3232
Dunwich & Dutton Telephone Co., Ltd. vs. Jas. D. Graham, et al	Complaint as to service	A-3337

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—CONTINUED

		Procedure File
Dysart, United Townships of	Approval By-law 449—Township of Minden, extension of Dysart Municipal Telephone System into Township of Minden and use of certain highways therein	A-3434
Dunsford Telephone Light & Power Co-operative Association, Ltd	Approval re-installation and re-connection charges	A-3488
Dungannon, Township of	Approval By-law—Authorizing certain reconstruction, replacements and alterations to Dungannon Municipal Telephone System and issue of debentures therefor	A-3519
Dungannon Municipal Telephone System	Approval By-law of Township of Dungannon—Authorizing certain reconstruction, replacements and alterations to, and issue of debentures therefor	A-3519
Dungannon, Township of, vs. G. W. Jones	Application for Order determing validity of special rate levied upon property of respondent	A-3520
Dawn Municipal Telephone System	Approval purchase from Bell Telephone Company of Canada, Ltd., of certain plant and equipment located on portion of Provincial Highway No. 26 from Village of Oil Springs to Eddys Mills in County of Lambton	A-3533
Denbigh, Abinger and Ashby, Townships of	Approval By-law 211—Use of highways in Township of Denbigh to Ontario Forestry Branch	A-3583
Dunville Consolidated Telephone Co., Ltd	Approval By-law 939 of County of Haldimand, granting use of highways to	A-3676
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 624 of Township of Glanford—Use of highways to	A-3615a
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 370 of Township of Onondaga, use of highways to	A-3615b
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 507 of Township of Caistor—Use of highways to	A-3615c
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 7 (1931) of Township of Canboro—Use of highways to	A-3615d
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 328 of Township of Seneca—Use of highways to	A-3615e
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 277 of Township of Oneida—Use of highways to	A-3615f
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 562 of Township of North Cayuga—Use of highways to	A-3615g
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 600 of Township of South Cayuga—Use of highways to	A-3615h
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 98 of Township of Dunn—Use of highways to	A-3615i
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 517 of Township of Gainsboro—Use of highways to	A-3615j
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 1 (1931) of Township of Moulton—Use of highways to	A-3615k
Dunnville Consolidated Telephone Co., Ltd	Approval By-law 46 of Township of Sherbrooke—Use of highways to	A-3615l
Dunn, Township of	Use of highways to Dunnville Consolidated Telephone Company, Ltd	A-3615i

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—Continued

		Procedure File
Dungannon, Municipality of	Approval agreement for interchange of telephone service with The People's Telegraph & Telephone Co., Ltd.	A-3696
Dungannon, Municipality of	Approval agreement for interchange of telephone service with The People's Telegraph & Telephone Co., Ltd., et al	A-3772
Dunsford Telephone, Light & Power Co-operative Association, Ltd.	Authority to expend portion of Depreciation Fund in purchase of National Service Bonds	A-3805
Emily, Township of	Approval purchase of telephone system of Omemee Telephone Co., Ltd., located in Townships of Cavan, Emily, Manvers and Ops	A-3531
East Middlesex Telephone Co., Ltd., vs. Harrietsville Telephone Association, Ltd.	Performance of agreement re parallelling of pole leads	A-3688
Flake, John D.	Approval of sale to James J. Vogan of "Kaladar Northern Telephone System"	A-3228
Forestry Branch of Department of Lands and Forests	Approval By-law 636 of United Townships of Monteagle and Herschel, granting use of certain highways to	A-3229
Forestry Branch of Department of Lands and Forests	Approval agreement for interchange of service with Calabogie & Renfrew Telephone System (M. J. O'Brien, Ltd.)	A-3469
Forestry Branch of Department of Lands and Forests	Approval By-law 211 of Townships of Denbigh, Abinger and Ashby—Use of highways in Township of Denbigh	A-3583
Forestry Branch of Department of Lands and Forests	Approval By-law 126 of United Townships of Griffith and Matawatchan—Use of certain highways to, in Township of Griffith	A-3670
Faraday, Municipality of	Approval agreement for interchange of service with People's Telephone & Telegraph Co., Ltd., et al	A-3772
Fauquier, Township of	Approval By-law 32—Use of highways to the Northern Telephone Co., Ltd	A-3796
Graham, Jas. D., et al, vs. Dunwich & Dutton Telephone Co., Ltd	Complaint as to service	A-3337
Glanford, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd	A-3615a
Gainsboro, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd	A-3615i
Griffith and Matawatchan, United Townships of	Approval By-law 126—Use of certain highways in Township of Griffith to Forestry Branch of Department of Lands and Forests	A-3670
Gilroy, W. N., et al	Approval agreement for sale of Coe Hill Rural Telephone System (equipment, etc.), to Geo. Poff	A-3671
Hay, Township of	Approval of purchase of certain telephone plant and equipment from Bell Telephone Company of Canada, Ltd	A-3245
Herbert, Ralph, et al	Service by Aylmer & Malahide Telephone Company, Ltd., etc	A-3363
Harrietsville Telephone Association, Ltd	Parallelling of lines of The Harrietsville Telephone Association to furnish service to Ralph Herbert, et al	A-3363
Houghton & Bayham Telephone Co., Ltd., vs. Aylmer & Malahide Telephone Co., Ltd	Complaint re charge from Port Burwell to points beyond Vienna	A-3373
Hay, Township of	Approval By-law 6 (1931)—Debenture issue re extensions to its Municipal Telephone System	A-3396

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—Continued

		Procedure File
Haldimand Municipal Telephone System	Approval agreement for free interchange of service with telephone system of Municipality of Cramahe	A-3412
Hagarty and Richards, United Townships of	Approval By-law 265—Debenture issue re extensions to Hagarty Municipal Telephone System	A-3509
Hinchinbrooke, Township of	Approval By-law 4 (1931)—Use of certain highways to Chippawa Rural Telephone Co., Ltd.,	A-3539b
Haldimand, County of	Approval By-law 939—Granting use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3676
Harrietsville Telephone Association, Ltd., vs. East Middlesex Telephone Co., Ltd.	Performance of agreement re parallelling of pole leads	A-3688
Harrietsville Telephone Association, Ltd.	Approval of agreement for interchange of service with The Aylmer & Malahide Telephone Co., Ltd.	A-3695
Ingersoll Telephone Co., Ltd.	Expenditure of portion of Depreciation Fund on new construction or additions	A-3312
Ingersoll Telephone Co., Ltd.	Approval By-law, dated February 26th, 1931—Regarding control and management of its undertaking	A-3384
Innisfil Telephone Co., Ltd.	Increased charges for service to summer residents	A-3476
Jones, G. S., vs. Township of Dungannon	Application for Order determining validity of special rate levied upon property of respondent	A-3520
James, et al, Townships of	Authority to Northern Telephone Co., Ltd., to use highways or road allowances in	A-3808
Kaladar Northern Telephone System	Approval of sale of, by John D. Flake to James J. Vogan	A-3228
Lands and Forests, Department of	See "Forestry Branch."	
Little Britain Telephone Co., Ltd.	Increased charges	A-3279
Lanark & Ramsay Telephone Co., Ltd.	Amendment to By-laws	A-3298
London, Township Municipal Telephone System, et al, vs. W. A. McInroy	Parallelling of lines of by Coldstream Telephone System (Geo. McKenzie) to furnish service to applicant	A-3344
Lyons, A. A. (Lyons Private Telephone Line)	Approval re installation charge	A-3394
Lands and Forests, Department of	See "Forestry Branch."	
Longford Reserve, Ltd.	Approval of agreement for interchange of service with The Muskoka, Victoria and Haliburton Telephone Co., Ltd.	A-3598
Monteagle and Herschel, United Townships of	Approval By-law 635—Use of certain highways to Forestry Branch of Department of Lands and Forests	A-3229
Muskoka & Parry Sound Telephone Co., Ltd.	Approval By-law 375 of Township of Brunel—Use of highways to	A-3275
Muskoka Beach Inn, Ltd., vs. Ryde Municipal Telephone System	Complaint re excessive charges for telephone service	A-3427
Minden, Township of	Approval By-law 449—Extension of Dysart Municipal Telephone System into Township of Minden and use of certain highways therein for such purpose	A-3434
Malahide & Bayham Telephone Association, Ltd.	Approval of agreement for interchange of service with South Malahide Telephone Co., Ltd.	A-3506

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—Continued

		Procedure File
Monteagle & Herschel Municipal Telephone System	Approval of agreement for use of space for one metallic circuit upon poles of, by Forestry Branch	A-3568
Muskoka, Victoria & Haliburton Telephone Co., Ltd.	Approval of agreement for interchange of service with the Longford Reserve, Ltd.	A-3598
Moulton, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615k
Monteagle & Herschel Municipal Telephone System	Approval of agreement for interchange of service with People's Telephone & Telegraph Co., Ltd., et al	A-3772
Manitoulin & North Shore Telephone & Telegraph Co., Ltd.	Agreement for interchange of service with Municipality of Burpee & Robinson Rural Telephone Co., Ltd.	A-3842
Medora and Wood, United Townships of	Establishment of Telephone System under Part II of "The Telephone Act," approval of By-law 512	A-3859
McKenzie, George, et al, vs. George D. Browne	Parallelling of lines of Coldstream Telephone System by Caradoc-Ekfrid Telephone Co., Ltd., and service to applicant	A-3338
McKenzie, George, et al, vs. W. A. McInroy	Parallelling of lines of London Township Telephone System by Coldstream Telephone System to furnish service to applicant	A-3344
McInroy, W. A., vs. Geo. McKenzie	Parallelling of lines of London Township Telephone System by Coldstream Telephone System to furnish service to applicant	A-3344
North Cayuga, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615g
Northern Telephone Co., Ltd	Free service to certain officials and employees	A-3713
Northern Telephone Co., Ltd.	Authority to erect poles, etc., on highways in unorganized Townships of O'Brien, Owens, and other municipalities	A-3768
Northern Telephone Co., Ltd.	Approval By-law 68 of Townships of Shackleton and Machin—Use of highways to	A-3795
Northern Telephone Co., Ltd.	Approval By-law 32 of Township of Fauquier—Use of highways to	A-3796
Northern Telephone Co., Ltd.	Authority to use highways or road allowances in unorganized Townships of James, et al.	A-3808
Omemee Telephone Co., Ltd.	Investment of portion of Depreciation Fund	A-3359
Omemee Telephone Co., Ltd.	Approval of sale of its undertaking to Township of Emily	A-3516
Omemee Telephone Co., Ltd.	Approval of sale of its system in Townships of Cavan, Emily, Manvers and Ops to Township of Emily	A-3531
Ontario Forestry Branch	See Department of Lands and Forests.	
Onondaga, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615b
Oneida, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615f
Portland, Township of	Approval By-law 13 (1930)—Use of certain highways to Chippawa Rural Telephone Co., Ltd.	A-3539
People's Telegraph & Telephone Co., Ltd.	Use of poles of, for one metallic circuit by Ontario Forestry Branch of Department of Lands and Forests	A-3567
Poff, Geo.	Approval of agreement for sale to by W. N. Gilroy, et al, of Coe Hill Rural Telephone (equipment, etc.)	A-3671
People's Telegraph & Telephone Co., Ltd.	Approval of agreement for interchange of service with the Municipality of Dungannon Telephone System	A-3696

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—CONTINUED

		Procedure File
People's Telegraph & Telephone Co., Ltd.	Agreement, approval of, between Municipality of Faraday, et al, for interchange of service	A-3772
Ryde Municipal Telephone System vs. Muskoka Beach Inn, Ltd.	Complaint re excessive charge for telephone service	A-3427
Radcliffe Municipal Telephone System	Approval of agreement for interchange of service with People's Telegraph & Telephone Co., Ltd.	A-3772
Robinson Rural Telephone Co., Ltd.	Approval of agreement for interchange of service with Manitoulin & North Shore Telephone & Telegraph Co. and Municipality of Burpee	A-3842
Sauble Falls Telephone System	Approval by-laws re control and management of applicant's undertaking	A-3259
South Monaghan Municipal Telephone System	Extension of time to pass debenture issue by-law to meet cost of establishing applicant's system	A-3260
Sandwich South Municipal Telephone System	Authority to purchase thirty-five poles on Con. VII, Township of Sandwich South	A-3299
Scarborough Independent Telephone Co., Ltd., vs. J. B. Tyrrell	Requiring respondent to establish connection with Bell Telephone Company of Canada, Ltd.	A-3313
South Monaghan Municipal Telephone System	Extension of time to pass Debenture By-law for establishing telephone system	A-3334
Stafford, Township of	Approval By-law 38—Use of highways to Cobden Rural Telephone Co., Ltd.	A-3354
South Monaghan Municipal Telephone System	Extension of term for payment of debentures for establishing system over a period of twenty years	A-3362
Silcote Telephone Co., Ltd.	Approval by-laws re control and management of undertaking	A-3368
Southern Ontario Telephone Co., Ltd.	Approval by-law re control and management of its undertaking	A-3420
South Malahide Telephone Co., Ltd.	Approval of agreement for interchange of service with Malahide & Bayham Telephone Association, Ltd.	A-3506
South Monaghan, Township of	Approval of By-law 436 to meet cost of establishing its Municipal Telephone System	A-3504
Seneca, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615i
South Cayuga, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615h
Sherbrooke, Township of	Use of highways to Dunnville Consolidated Telephone Co., Ltd.	A-3615l
Somerville Municipal Telephone System	Approval of agreement for interchange of service with the Burnt River Telephone Co., Ltd.	A-3763
Shackleton and Machin, Townships of	Approval By-law 68—Use of highways to The Northern Telephone Co., Ltd.	A-3795
Tuckersmith, Township of	Debenture issue re extensions to Municipal Telephone System	A-3248
Tyrrell, J. B., vs. Scarborough Independent Telephone Co., Ltd.	Requiring respondent to establish connection with Bell Telephone Company of Canada, Ltd.	A-3313
Thessalon, Township of	Approval of By-law 10 (1931) debenture issue re extensions to its Municipal Telephone System	A-3395
Tilbury East Municipal Telephone System	Approval purchase of certain telephone plant and equipment from Bell Telephone Company of Canada, Ltd.	A-3807
Vogan, James J.	Approval sale to, by John D. Flake of "Kaladar Northern Telephone System"	A-3228

LIST OF APPLICATIONS TO THE BOARD UNDER "THE TELEPHONE ACT"—Continued

		Procedure File
Waterloo Municipal Telephone System	Approval of purchase from Bell Telephone Company of Canada, Ltd., of certain telephone plant, etc., in Village of Doon, Township of Waterloo	A-3230
Webster, J. M., vs. Dawn Municipal Telephone System	Approval of Order fixing remuneration for services to be paid to	A-3232
Wilmot, Township of	Approval of purchase of certain plant and equipment from Bell Telephone Company of Canada, Ltd.	A-3246
Wellesley, Township of	Approval By-law 972—Debenture issue re cost of extensions to Wellesley Municipal Telephone System	A-3364
Wellesley, Township of	Approval By-law 971—Debenture issue re cost of extensions to Wellesley Municipal Telephone System to furnish service to non-landowners	A-3365
Watt, Township of	Approval By-law 637—Debenture issue re extensions to its Municipal Telephone System.	A-3776

LIST OF BELL TELEPHONE AGREEMENTS APPROVED BY THE BOARD UNDER SECTION 97 OF "THE TELEPHONE ACT"

Exchange and Toll Line Agreements

	Procedure File
Addington Telephone Company, Limited	A-3636
Adelaide Telephone Company, Limited	A-3660
Balderson Telephone Company, Limited	A-3596
Colborne Municipal Telephone System	A-3637
Dryden Municipal Telephone System	A-3371
Goderich Rural Telephone Company, Limited	A-3638
Martintown Telephones	A-3780
People's Telegraph & Telephone Company, Limited	A-3584
People's Mutual Telephone Company, Limited	A-3662
Sprague, J. Grant (Sprague Telephone System)	A-3385
Waterloo Municipal Telephone System	A-3234

Service Station Agreements

Adelaide Telephone Company, Limited	A-3660
Browning Telephone Line (E. W. Arden and E. J. Kirk)	A-3468
Crews Telephone Company, Limited	A-3378
Chapleau Telephone System, Limited	A-3474
Cobden Rural Telephone Company, Limited	A-3597
Lake of Bays & Haliburton Telephone Company, Limited	A-3661
MacDonald Telephone Company, Limited	A-3529
Mersea Municipal Telephone System	A-3603
Rox Telephone Company, Limited	A-3530
White Telephone System, Limited	A-3604
Lands and Forests, Department of (Ontario)—Special form of connecting agreement	A-3526

TARIFF OF FEES

Tariff of Fees Payable in Cash or Law Stamps Under Sections 61 and 62 of "The Railway and Municipal Board Act"

For copy of any Document, 10 cents for each 100 words and 50 cents for each Certificate.

For copy of any map or plan, applicants are to pay draughtsmen's and engineer's fees for same and 50 cents for each Certificate.

In contentious matters, including arbitrations or references to the Board under Public General Acts of Ontario, requiring a Hearing, there shall be paid in Law Stamps the sum of $15.00 for each day or fraction thereof over one half-day, and the sum of $10.00 for each half-day or less occupied by or in connection with the Hearing, and $1.00 on each original subpoena.

In all other arbitrations or references requiring a Hearing there shall be paid in Law Stamps the sum of $50.00 for each day or fraction thereof over one half-day, and the sum of $25.00 for each half-day or less occupied by or in connection with the Hearing, and $1.00 on each original subpoena.

In Cases in Which There Is No Opposing Party

On Order under Section 304 of "The Municipal Act," validating a By-law and Debentures, the following sums shall be paid in Law Stamps.

(These fees shall be payable on each group of four By-laws (grouped by serial numbers) consolidated under "The Local Improvement Act").

Where the issue of Debentures amounts to $10,000 or less	$15 00
Over $10,000 and up to $15,000	20 00
" 15,000 " 20,000	25 00
" 20,000 " 25,000	30 00
" 25,000 " 30,000	35 00
" 30,000 " 40,000	40 00
" 40,000 " 50,000	45 00
" 50,000 " 60,000	50 00
" 60,000 " 70,000	55 00
" 70,000 " 80,000	60 00
" 80,000 " 90,000	65 00
" 90,000 " 100,000	70 00
" 100,000 " 110,000	75 00
" 110,000 " 120,000	80 00
" 120,000 " 130,000	85 00
" 130,000 " 140,000	90 00
" 140,000 " 150,000	95 00
" 150,000 " 160,000	100 00
" 160,000 " 170,000	105 00
" 170,000 " 180,000	110 00
" 180,000 " 190,000	115 00
" 190,000 " 200,000	120 00
" 200,000, such sum as the Board may order or direct.	

The following sums shall be paid in Law Stamps on the following Orders and Certificates:

Approval of By-law for work ordered by Dominion or Ontario Railway Board—Section 297 (2) (f) of "The Municipal Act"	$10 00
Approval of By-law authorizing expenditure for fire hall, fire engines, etc.—Section 27 of "The Municipal Amendment Act, 1931" (Chapter 50)	10 00
Approval of By-law for extension of Waterworks or Electric Light or Gasworks, etc.—Section 399 (2) of "The Municipal Act"	10 00
Approval of a plan under "The Railway Act"	5 00
Approval of Railway Fenders	5 00
Extension of time to pass a By-law—Section 288 (5) of "The Municipal Act"	5 00
Extension of Debenture Issue period—Section 296 (11) and (12) of "The Municipal Act"	5 00
Approval of Bridge Construction By-law—Section 297 (2) (e) of "The Municipal Act"	5 00
Approval of By-law changing the rate of interest on debentures—Section 300 of "The Municipal Act"	5 00
Repeal of By-law as to amount not required—Section 301 (2) of "The Municipal Act"	5 00
Approval of further debt and levies where tax rate too high—Section 306 (2) of "The Municipal Act"	5 00
Approval of Sinking Fund Investment By-law—Section 317 of "The Municipal Act"	5 00
Approval of Municipal Fuel By-law—Section 397 (38) of "The Municipal Act"	5 00
Approval of laying out of highway less than sixty-six feet in width—Section 490 of "The Municipal Act"	5 00

TARIFF OF FEES—Continued

Approval of By-law abandoning part of local improvement work—Section 18 of "The Local Improvement Act"	$5 00
Approval of By-law apportioning cost of local improvement work—Section 26 (3) of "The Local Improvement Act"	5 00
Approval of By-law authorizing license fee—Section 411 (9) of "The Municipal Act"	5 00
Approval of By-law for Unemployment Relief Works—Section 4 (2) of "The Unemployment Relief Act (Ontario)"	5 00
Except local improvement works, when fee is	15 00
Approval of plan of land subdivision	5 00
Approval of Railway Company's Public By-laws and Rules	2 00
Approval of Railway Company's Tolls and Tariffs	2 00
Approval of Railway Company's Examiner of Motormen	1 00

On Orders not included in the above list, such sums as the Board may order or direct.

TARIFF OF FEES PAYABLE IN LAW STAMPS IN PROCEEDINGS UNDER "THE TELEPHONE ACT"

ON ORDER:

Authorizing the passing of a By-law extending the period for repayment of debentures to cover the cost of telephone system established pursuant to Section 19, beyond ten years; under Section 26	$10 00
Authorizing the extension of a telephone system established pursuant to Section 19, into unorganized townships; under Section 18	5 00
Approving a Municipal By-law, providing for the establishment or extension of telephone system; under Section 19	5 00
Extending the period within which Debenture By-law to cover cost of establishing a telephone system pursuant to Section 19 may be passed; under Section 25	5 00
Authorizing a Municipal Council to pass a By-law for reconstruction, etc.; under Section 27	5 00
Authorizing a Municipal Council to pass a By-law for the issue of debentures for furnishing service to persons not being assessed landowners; under Section 28	5 00
Authorizing the passing of a By-law providing for the issue of new debentures to provide for the payment of a portion of the principal of the original debentures falling due in any year; under Section 30	5 00
Approving the purchase of telephone systems; under Sections 31 and 102	5 00
Approving Connecting Agreement with The Bell Telephone Company of Canada, Limited; under Section 97	5 00
Authorizing a Company to expend a portion of its Depreciation Reserve in new construction, etc.; under Section 110	5 00
Authorizing a Company to issue additional stock or bonds; under Section 111	5 00
Authorizing the removal of signatures from a petition, praying for the establishment of a telephone system pursuant to Section 19; under section 12	2 00
Granting the use of highways in unorganized townships; under Section 84	2 00
Approving the By-laws of a telephone company; under Section 88	2 00
Approving connecting Agreement between telephone systems within the jurisdiction of Ontario; under Section 97	2 00
Approving regulations to prevent the misuse of system by subscribers; under Section 112	2 00
Approving Municipal By-law granting the use of highways; under Section 80	1 00

On any Order not included in the above list, such sums as the Board may order or direct.

In contentious matters requiring a Hearing, $15.00 for each day or fraction thereof over one half-day, and $10.00 for each half-day or less occupied in connection with the Hearing, and $1.00 on each original subpoena.

Where inquiry is made by the Board's expert, $10.00 for each day or fraction thereof over one-half day, and $5.00 for each half-day or less occupied in connection with such inquiry.

For copy of any Document, 10 cents for each 100 words, and 50 cents for each Certificate.

THE FOLLOWING GIVES A BRIEF SUMMARY OF THE EXTENSIONS AND IMPROVEMENTS MADE TO THE RAILWAYS UNDER PROVINCIAL JURISDICTION DURING THE YEAR 1931

Buffalo and Fort Erie Ferry and Railway Company

This company reports that there were no extensions to track, and no expenditure on improvements, machinery, etc., from December 31st, 1930, to December 31st, 1931, as they did not operate the railway during 1931.

They also report that the railroad has been dismantled and all of the equipment disposed of.

Cornwall Street Railway, Light and Power Company, Limited

This company reports that during the year ending December 31st, 1931, they made an extension to tracks of one-half mile on Cumberland Street, at a cost of $15,823.20.

The company also reports a total expenditure on track improvements, overhead structure, rolling stock, buildings, etc., of $3,398.09.

Fort William Electric Railway

During the year December 31st, 1930, to December 31st, 1931, it is reported that there were no extensions made to the tracks of this railway company.

During the same period it is reported that they made a total expenditure on track improvements, overhead structure, rolling stock, buildings, etc., of $35,699.40.

Guelph Radial Railway

It is reported by the Hydro-Electric Railways that during the year December 31st, 1930, to December 31st, 1931, on the Guelph Division there was no extension made to track.

It is also reported that during the same period there was no expenditure made on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

Hamilton Street Railway

This company reports that during the year ending December 31st, 1931, there was no extension made to track.

It is also reported that during the same period there was a total expenditure of $138,503.11 made on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

Hamilton and Dundas Street Railway Company

During the year ending 31st December, 1931, there were no extensions made to track, and no expenditure on track improvements, rolling stock, etc., for the reason that this railway is not now being operated.

Hamilton, Grimsby and Beamsville Railway Company, Limited

This company did not make any extensions to track during the year ending December 31st, 1931, and did not make any expenditure on track improvements, overhead structure, rolling stock, etc. This railway ceased operation June 30th, 1931.

Hamilton and Barton Incline Railway Company

It is reported by this company that during the year December 31st, 1930, to December 31st, 1931, they did not make any extensions to track.

They also report that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

Huntsville and Lake of Bays Railway Company

During the year ending December 31st, 1931, this company reports that they did not make any extensions to track.

They report, however, during the same period an expenditure on track improvements, rolling stock, buildings, machinery, etc., of $446.27.

HYDRO-ELECTRIC RADIAL RAILWAYS (ESSEX DIVISION)

(SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY)

It is reported by the Hydro-Electric Power Commission of Ontario that during the year ending December 31st, 1931, they made an extension to the track of the above railway of .445 single track miles at a cost of $25,000.00.

They also report during the same period a total expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $15,000.00.

THE INTERNATIONAL RAILWAY COMPANY (NIAGARA FALLS PARK AND RIVER DIVISION)

During the year December 31st, 1930, to December 31st, 1931, this company report that they did not make any track extensions.

They also report that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

THE INTERNATIONAL TRANSIT COMPANY

It is reported by this company that during the year ending December 31st, 1931, they did not make any extensions to track.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

KITCHENER-WATERLOO AND BRIDGEPORT RAILWAYS

The Public Utilities Commission of Kitchener report that during the year ending December 31st, 1931, there were no extensions made to the track of the above railway.

It is also reported that during the same period an expenditure of $571.69 was made on the track and line.

LAKE HURON AND NORTHERN ONTARIO RAILWAY

This railway is not being operated at the present time.

LONDON STREET RAILWAY COMPANY

During the year ending December 31st, 1931, this company reports that they did not make any extensions to track.

They report, however, that during the same period they made an expenditure on buildings of $7,779.85, and on busses of $13,257.88, making a total expenditure of $21,037.73.

THE MIDLAND-SIMCOE RAILWAY COMPANY

It is reported by this company that during the period December 31st, 1930, to December 31st, 1931, they did not make any extensions to track.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, etc.

MOUNT MCKAY AND KAKABEKA FALLS RAILWAY COMPANY

During the year ending December 31st, 1931, this company reports that they did not make any extensions to track.

They also report that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

NIAGARA PENINSULAR RAILWAY

It is reported that during the year ending December 31st, 1931, this company did not make any extensions to track.

It is also reported that during the same period they made repairs to roadbed at a cost of $3,276.45.

NORTH YONGE RAILWAYS

The Toronto Transportation Commission, which now operates the above railway, reports that it did not make any extension to track during the period ending December 31st, 1931.

It also reports that it did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc., during the same period.

PORT ARTHUR CIVIC RAILWAY

This company reports that during the year ending December 31st, 1931, they did not make any extensions to track.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

SARNIA STREET RAILWAY COMPANY, LIMITED

During the year ending December 31st, 1931, there were no extensions made to track, and there was no expenditure made on improvements, etc., as the company reports that they ceased operating the railway in February, 1931.

SUDBURY-COPPER CLIFF SUBURBAN ELECTRIC RAILWAY

It is reported by this company that they did not make any extensions to track during the year ending December 31st, 1931.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

TEMISKAMING AND NORTHERN ONTARIO RAILWAY

It is reported by the Temiskaming and Northern Ontario Railway Commission that during the year ending December 31st, 1931, they extended the tracks of the above railway at a cost of $3,025,040.49.

The Commission also reports that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, etc. But they report a Credit of $14,494.84 as a result of retirements.

THURLOW RAILWAY COMPANY

It is reported that during the year ending December 31st, 1931, this company did not make any extensions to track.

It is also reported that during the same year they made an expenditure of $10,776.69, being repairs to roadbed, etc.

TILLSON SPUR LINE RAILWAY COMPANY

During the year ending December 31st, 1931, it is reported that this company did not make any extensions to track.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

THE TORONTO TRANSPORTATION COMMISSION

It is reported by the Commission that during the year December 31st, 1930, to December 31st, 1931, they made extensions to track of 5.237 miles, at a cost of $515,897.72.

It is also reported that during the same period they made a total expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc., of $1,227,368.64.

TOWNSHIP OF YORK AND WESTON RAILWAYS

During the year ending December 31st, 1931, it is reported by the Toronto Transportation Commission, which operates the above railway, they did not make any extensions to track.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, etc.

WENTWORTH INCLINE RAILWAY LIMITED

During the year ending December 31st, 1931, it is reported that this company did not make any track extensions.

It is also reported that during the same period they did not make any expenditure on track improvements, overhead structure, rolling stock, buildings, machinery, etc.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31ST DECEMBER, 1931

No.	Name of Railway	Length of road first main track	Length of road second main track	Total main track	Length of sidings and turnouts	Total computed as single track	Length under construction	No. Power Houses		Remarks
								Steam	Water	
		miles	miles	miles	miles	miles	miles			
*1	Buffalo & Fort Erie Ferry & Railway Co.									This company report the railway not in operation, having been dismantled, and equipment disposed of.
2	Cornwall Street Railway, Light & Power Co., Ltd.	5.		5.	2.	7.			1	Power purchased from St. Lawrence Power Co.
3	Fort William Electric Railway	4.935	19.695	24.630	.800	25.430				Power purchased from Hydro-Electric Power Commission of Fort William.
†4	Guelph Radial	6.412		6.412	2.094	8.506				Power purchased from Light and Heat Commission, Guelph.
5	Hamilton Street Railway	18.	16.3	34.3		34.3				Power purchased from The Hamilton Cataract Power, Light & Traction Co., Ltd.
6	Hamilton & Dundas Railway	5.85	.20	6.05	1.60	7.65				Not in operation at present.
7	Hamilton, Grimsby & Beamsville Electric	22.6		22.6	3.6	26.2				Power purchased from The Hamilton Cataract Power, Light & Traction Co., Ltd. This railway ceased operation, June 30th, 1931.
*8	Hamilton & Barton (incline)	.12	.12	.24		.24		1		At head of Incline.
*9	Huntsville & Lake of Bays	1.45		1.45	.31	1.76				
†10	Hydro-Electric Radials (Essex Division) S.W. & A. Ry.	43.893	12.687	56.580	5.238	61.818				Power purchased from Hydro-Electric Power Commission of Ontario.
11	International Railway (Niagara Falls Park & River Division)	11.649	10.973	22.622	1.314	23.936			1	
12	International Transit	3.80	1.17	4.97	.09	5.06				Power purchased from The Great Lakes Power Co., Ltd.

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*Steam railways.

†Operated by Hydro-Electric Power Commission of Ontario.

ELECTRIC, STEAM AND INCLINE RAILWAYS UNDER PROVINCIAL JURISDICTION, YEAR ENDING 31st DECEMBER, 1931—

CONTINUED

No.	Name of Railway	Length of road first main track	Length of road second main track	Total main track	Length of sidings and turnouts	Total computed as single track	Length under construction	No. Power Houses		Remarks
								Steam	Water	
13	Kitchener-Waterloo & Bridgeport Railways	6.55	2.86	9.41	.94	10.35	....	......	......	Power purchased from the Public Utilities Commission, Kitchener.
*14	Lake Huron & Northern Ontario Railway	16.	....	16.	1.	17.	....	......	......	Not in operation at present.
15	London Street Railway	15.84	7.03	22.87	.96	23.83	....	......	......	Power purchased from Hydro-Electric Power Commission of Ontario.
*16	Midland-Simcoe Railway Co.	1	....	1.	4.	5.	....	......	......	....
17	Mount McKay and Kakabeka Falls Railway	5.	....	5.	1.50	6.50	....	......	......	Leased to and operated by City of Fort William.
*18	Niagara Peninsular Railway	3.325	....	3.325	2.115	5.44	....	......	......	....
‡19	North Yonge Railways	10.342	....	10.342	1.419	11.761	....	......	......	Power purchased from Hydro-Electric Power Commission of Ontario.
20	Port Arthur Municipal Ry.	13.43	6.10	19.53	1.04	20.57	....	......	......	Power purchased from Electric Light and Power Department, Public Utilities Commission, Port Arthur.
21	Sarnia Street Railway Co., Ltd.	4.50	4.50	9.	.25	9.25	....	......	......	This company ceased operation last February. Tracks torn up, except what are laid in pavement.
22	Subury-Copper Cliff Suburban Electric	7.9	....	7.9	.03	8.2	....	......	......	Power purchased from Hydro-Electric Power Commission of Ontario.
*23	Temiskaming & Northern Ontario Railway	442.3	1.7	444.	134.72	579.72	90.	1	....	Power purchased from Hydro-Electric Power Commission of Ontario, Northern Ontario Power Co., Ltd., Cochrane Public Utilities Commission, and Abitibi Power & Paper Co., Ltd.

*24	Thurlow Railway	2.671	....	2.671	4.666	7.337	....	......	......	Power purchased from Canada Cement Co.
25	Tillson Spur Line Railway Co.	1.010	....	1.010	.051	1.061	....	......	......	Operated by Canadian National Rly.
26	Toronto Transportation Commission	120.048	102.593	222.641	31.855	254.496	....	......	......	Power purchased from the Toronto Hydro-Electric System.
‡27	Township of York and Weston Railways	8.063	6.002	14.065	.148	14.213	....	......	......	Power purchased from the Toronto Transportation Commission.
§28	Wentworth Incline Rly., Ltd.	.14	.14	.28	....	.28	....	......	1	Mountain Top, Hamilton. Power purchased from Hamilton Hydro-Electric System.
	Total	781.828	192.070	973.898	202.740	1,176.908	90.	2	3	

*Steam railways.
§Formerly Hamilton Mountain Park Co., Ltd.
‡Operated by The Toronto Transportation Commission.

TABULATED SUMMARY OF ACCIDENT REPORTS RECEIVED IN 1931

Passengers		Employees		Travellers on Highways		Travellers at Crossings		Trespassers		Total	
Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1	760	...	20	19	132	....	....	....	....	20	912

TORONTO, 1931

Summary by months of all accidents on lines of the Toronto Transportation Commission from January 1st to December 31st, 1931

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisons with cars	Nil	Nil	1	1	Nil	1	Nil	Nil	2	Nil	Nil	Nil	5
Collisions with autos	438	399	360	242	216	242	190	219	254	227	229	363	3,379
Collisions with motorcycles and bicycles	1	2	3	5	4	6	10	3	2	6	6	2	50
Collisions with wagons	13	6	12	5	3	4	6	6	7	5	4	9	80
Boarding cars	11	29	15	7	10	9	7	8	7	11	10	11	135
Alighting from cars	11	18	14	15	22	24	7	11	21	14	16	16	189
Falling within cars	37	50	37	33	22	14	18	17	25	40	18	54	365
Derailment of cars	Nil	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	1	Nil	3	5
Miscellaneous	63	38	48	36	33	44	28	28	21	37	33	57	466
Total, all accidents	574	542	490	345	310	344	266	292	339	341	316	515	4,674
Personal injuries, all degrees:													
To passengers	58	75	63	45	40	55	33	41	50	56	38	78	632
To others	22	11	14	8	10	9	7	7	5	7	13	17	130
Total	80	86	77	53	50	64	40	48	55	63	51	95	762
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1
To others	2	2	1	Nil	2	2	Nil	Nil	1	Nil	1	1	12
Total	2	2	1	Nil	3	2	Nil	Nil	1	Nil	1	1	13

HAMILTON, 1931

Accidents on Hamilton Street Railway, and Hamilton, Grimsby and Beamsville Electric Railway Lines
From January 1st to December 31st, 1931

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisions with cars	Nil	Nil	Nil	Nil	Nil	Nil	1	1	1	1	Nil	Nil	4
Collisons with autos	67	46	45	27	57	42	36	36	32	45	31	38	502
Collisions with motorcycles and bicycles	Nil	Nil	1	Nil	Nil	2	1	Nil	Nil	Nil	Nil	Nil	4
Collisions with wagons	2	3	Nil	Nil	Nil	2	2	2	Nil	Nil	1	1	13
Boarding cars	1	1	5	3	3	1	2	2	1	2	1	1	23
Alighting from cars	3	Nil	1	Nil	3	6	1	1	Nil	2	2	1	20
Derailment of cars	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Miscellaneous	1	Nil	3	3	6	7	5	3	2	7	5	6	48
Total all accidents	74	50	55	33	69	60	48	45	36	57	40	47	614
Personal injuries, all degrees:													
To passengers	3	1	6	6	9	9	6	7	1	12	8	4	72
To others	2	2	4	Nil	3	2	Nil	3	2	2	3	1	24
Total	5	3	10	6	12	11	6	10	3	14	11	5	96
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

LONDON, 1931

Accidents on London Street Railway
From January 1st to December 31st, 1931

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Collisons with cars	3	Nil	2	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	5
Collisions with autos	55	38	25	39	26	32	26	31	37	16	37	30	392
Collisions with motorcycles and bicycles	Nil	Nil	Nil	Nil	Nil	Nil	Nil	2	2	Nil	Nil	Nil	4
Collisions with wagons	2	Nil	1	1	2	1	Nil	1	1	Nil	1	1	11
Boarding cars	2	3	1	2	1	Nil	1	Nil	1	Nil	1	1	13
Alighting from cars	9	6	2	1	3	1	2	1	2	Nil	1	Nil	28
Derailment of cars	Nil	Nil	1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1
Miscellaneous	6	3	5	4	5	1	3	3	1	3	4	2	40
Total, all accidents	77	50	37	47	37	35	32	38	44	19	44	34	494
Personal injuries, all degrees:													
To passengers	7	5	2	2	5	1	3	1	1	1	2	1	31
To others	5	2	5	3	4	Nil	2	3	1	2	5	4	36
Total	12	7	7	5	9	1	5	4	2	3	7	5	67
Fatal accidents:													
To passengers	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
To others	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1	Nil	2	3
Total	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1	Nil	2	3

INDEX TO RAILWAY LEGISLATION

The following Index has been made with the object of continuing in chronological order all the legislation passed by the Dominion and Provincial Governments since 1867, affecting railways situated wholly or partially within the Province of Ontario.

"List No. 2" was commenced on page 272 of our Ninth Annual Report (1914), and is continued on page 172 of our Twenty-fifth Annual Report (1930), and in the following list up to and inclusive of 1931.

	Chap.	Year
ALGOMA CENTRAL RAILWAY:		
Ontario Statute	135	1931
Act respecting.		
ALGOMA CENTRAL AND HUDSON BAY RAILWAY COMPANY:		
Dominion Statute	62	1931
Act respecting.		
Ontario Statute	135	1931
ALGOMA CENTRAL TERMINALS, LIMITED:		
Incorporated under Dominion Company's Act, referred to in Chapter...	62	1931
Dominion Statute.		
Ontario Statute.		
See Act respecting City of Sault Ste. Marie	124	1931
Also see chapter	135	1931
ALGOMA EASTERN RAILWAY COMPANY:		
Ontario Statute	135	1931
See Act respecting Algoma Central Railway.		
CANADIAN NATIONAL RAILWAYS:		
Dominion Statute	6	1931
Act to amend.		
Dominion Statute	22	1931
Act respecting and to authorize the provision of moneys to meet expenditures made and indebtedness incurred during the calendar year 1931.		
Dominion Statute	23	1931
Act respecting and to authorize the guarantee by His Majesty of securities to be issued under The C.N.R. Financing Act, 1931.		
Ontario Statute	92	1931
See Act respecting the City of East Windsor re Subway.		
CORNWALL STREET RAILWAY LIGHT AND POWER COMPANY, LIMITED:		
Ontario Statute	88	1931
See Act respecting Town of Cornwall.		
GUELPH RADIAL RAILWAY:		
Ontario Statute	14	1931
Act to amend.		
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO:		
Ontario Statute	113	1931
See Act respecting the Township of North Gwillimbury. Part Metropolitan Railway T.Y.R.R. purchase.		
PERE MARQUETTE RAILWAY:		
Ontario Statute	23	1931
See Section 35, Statute Law Amendment Act, re Subway, Town of Walkerville.		
TORONTO AND YORK RADIAL RAILWAY:		
Ontario Statute	114	1931
See Act respecting Township of North York, re agreement to purchase railway in Townships of Markham, Vaughan, and Village of Richmond Hill.		

FORMS

FORM THAT MAY BE USED IN CONNECTION WITH THE EXAMINATION OF MOTORMEN

Name of City or Town
..............................193 .

NAME OF RAILWAY

This is to certify that, acting under "The Railway Act, 1927," R.S.O., Chapter 224, Section 265, I have fully examined the ....who is.........................years of age and..........feet..........inches high, weighs................................lbs., complexion................, as to his fitness as a motorman, that the said...is of steady habits, and is in physical ability, intelligence and general knowledge of, and experience in, this work qualified to act as motorman on any electric motor car of said Company.

I have been duly appointed an examiner under the said Act, my appointment being dated ....

Name..
Examiner.

FORM TO BE USED BY COMPANIES IN REPORTING ACCIDENTS

ACCIDENTS: Regulations under and in pursuance of Sections 275 and 276 of "The Railway Act, 1927." R.S.O., Chapter 224.

ACCIDENTS.—Every company upon the happening of an accident shall give to the Ontario Railway and Municipal Board notice thereof in writing by delivering the same at the office of the Board in the City of Toronto or by mailing it, postage prepaid, in a registered letter addressed to the Board.

Such notice shall contain a statement signed by a duly authorized officer of such company, setting forth the information and particulars hereinafter mentioned.

Such statement shall be divided into paragraphs, each of which shall include and refer to one (or one group) only of the numbered particulars hereinafter mentioned, and the paragraph referring to each respective numbered particular shall bear the number corresponding to the number hereinafter given for each such particular.

The numbers of paragraphs and the particulars to which each shall refer as aforesaid are as follows:

1. Name or names of company or companies concerned in accident.
2. Numbers of train, engine, car or motor.
3. Date and time of accident.
4. Nature of accident.
5. Exact location.
6. Name in full, address and legal addition of each persons injured or killed.
7. Age.
8. Married or single.
9. Passenger, employee or other.
10. If employee, length and nature of service with dates and periods of different occupations (if more than one).
11. If employee, character, experience, skill and fitness with respect to occupation at time of accident.
12. How engaged at time of accident, and how long on duty.
13. Cause of accident, how same occurred, with full particulars and details, and diagram, if required.
14. Persons in charge, with full names, addresses and the particulars referred to in paragraphs 10, 11 and 12.
15. Result to person and particulars of injury.
16. Result to property, including amount of damage.
17. Names and addresses of all persons present at, or eye witnesses of, the accident.
18. What investigation (if any), and result of same.
19. Verdict (if any).

The Board reserves the right to require such further and other details, particulars, maps, plans, profiles, documents, models and information or illustration of any kind as to the nature of the accident and a full understanding thereof may suggest or require.

In pursuance of Sections 275 and 276 of said Act, the Board declares that all such information so given in pursuance of this regulation shall be privileged.

Signature of Officer.

N.B.—Give name of officer who fills out this report.

REGULATIONS

REGULATION AS TO HEIGHT OF CAR STEPS

Under and in pursuance of a certain order of the Board bearing date the 2nd day of June, A.D. 1909, The Ontario Railway and Municipal Board made the following regulations:

The steps on all cars hereafter constructed and used by The Toronto Railway Company and all other street and electric railways under the jurisdiction of this Board shall have steps conforming to the following regulations:

On closed single truck cars the height of the first step above the ground shall not be less than twelve nor more than fifteen inches.

On closed double truck cars the height of the first step above the ground shall not be less than fourteen nor more than sixteen inches.

On open single truck cars the height of the first step above the ground shall be not less than twelve nor more than fifteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and nine inches respectively.

On open double truck cars, the height of the first step above the ground shall be not less than fourteen nor more than sixteen inches, and the distance between the first and second steps and the second step and the floor of the car shall measure twelve inches and fourteen inches respectively.

REGULATION RE DRINKING WATER ON PASSENGER CARS

Every Electric Railway Company in Ontario, subject to the jurisdiction of the Board, shall provide in each passenger car which runs 20 miles or more, a suitable receptacle for water with paper cups attached upon or near such receptacle, and shall keep such receptacle, while the car is in use, constantly supplied with cool drinking water for the use of passengers and the conductor and motorman in charge of such car.

This regulation shall not apply to street railways in towns or cities.

(Sgd.) C. R. McKeown,
Chairman.
(Sgd.) A. B. Ingram,
Vice-Chairman.
(Sgd.) J. A. Ellis,
Commissioner.

Dated at Toronto, this 10th day of April, A.D. 1928.

ONTARIO SAFETY LEAGUE

Metropolitan Building, Victoria and Adelaide Streets, Toronto 2, Canada

26th February, 1932.

A. B. Ingram, Esq.,
Vice-Chairman,
Ontario Railway and Municipal Board,
Parliament Buildings,
Toronto, 5.

Dear Mr. Ingram:

In compliance with your telephone message, it gives me great pleasure to enclose Synopsis of the Eighteenth Annual Report of the Ontario Safety League (1931) as presented at the Annual Meeting held in Toronto on February 15th, 1932.

In appreciation of your publishing this as part of your Twenty-sixth Annual Report, I am,

Yours very truly,

J. F. H. Wyse,
General Manager.

The Ontario Railway and Municipal Board is of the opinion that it should give its share of publicity in its Annual Report to some of the work done by The Ontario Safety League, as the success in preventing accidents largely depends upon the amount of publicity given to the efforts of the officers of this very energetic League.

SYNOPSIS OF EIGHTEENTH ANNUAL REPORT (1931) ONTARIO SAFETY LEAGUE

Annual Meeting, Toronto, February 15th, 1932

Mr. Chairman, Our Guest Speaker, The Honourable Leopold Macaulay, Ladies and Gentlemen:

In presenting our report for 1931, we feel the sincere thanks are due our many friends through whose assistance we have accomplished more Safety work than during any previous year. This was made possible by the co-operation of each and every member of our staff whose heart is in the work.

We wish to specifically mention the Provincial Government, Department of Public Works and Highways, Labour, Ontario Railway and Municipal Board, the Toronto Transportation Commission, the Municipalities of Toronto, Hamilton, Ottawa, London, Midland and Fort William; Boards of Education and Separate School Boards, our Industrial interests, Workmen's Compensation Board, Canadian Auto Manufacturers' and Exporters' Association, Ontario Motor League, Ontario College of Art, Ontario Optometrical Association, Toronto Harbour Commission, Fire and Police Departments, School Principals and Teachers, Kiwanis, Rotary and other Service Clubs.

We retained our usual membership in organizations, and to our friends and exchanges in Canada, England and the United States, we tender our hearty appreciation.

The Executive Committee has been a constant help and inspiration to us in the way they served the interests of Safety.

A continual campaign of Safety education was carried on in the schools of Ontario. Our Safety lesson was given to 207,400 children in 421 schools, in sixty-five different cities, towns and villages in the Province. It was illustrated by motion pictures and lantern slides.

It is a matter of encouragement that during the past year (1931) there were fifty-one less children killed from all accident hazards in the entire Province than in 1930, as 340 is to 391, and of the 340 children killed, forty-five were under school age.

Safety Patrols in the schools did good work protecting the younger children coming to and leaving the schools.

A School Safety bulletin service was issued to 103 different places in Ontario.

Two hundred and six thousand five hundred "Letters to Parents" were distributed through the co-operation of the school principals, teachers and pupils.

Six thousand two hundred and ninety-three essays were entered for our prize essay contest, and 2,628 drawings for our Drawing Contest, covering all of Ontario.

Two hundred Safety Traffic Signs for erection adjacent to schools were distributed and erected.

Two Safety Exhibits were held during the year. The first one was held in connection with "Health Week," sponsored by the Toronto Social Hygiene Council, in Hygeia Hall, during March.

The second Exhibit was held during the two weeks of the Canadian National Exhibition. A booth was furnished for this purpose by the management of the Canadian National Exhibition.

Special attention was given to the aquatic hazard during the summer months.

Some 13,000 Safety Calendars—an all-Canadian product—were distributed to employees through Industrial managements, who purchased them in quantities for this purpose.

The usual number of meetings and conventions were attended, and articles prepared on Accident and Fire Prevention were supplied bi-monthly to "The Canadian Teacher."

There was a large distribution of literature made during the year.

The League endeavoured to reach during the year all drivers of automotive vehicles by Safety Educational Posters, through the medium of truck owners, automobile owners, industries, garages and service stations, provincial, civic and all public officials.

Through the courtesy of the Department of Public Highways, Motor Vehicles Branch and the manufacturer of marker plates, 400,000 messages to motorists were printed and distributed to drivers of automotive vehicles:

"KEEP ME, and follow my suggestions and I will KEEP YOU out of trouble."

From all accident hazards there was a decrease of 100 fatalities during 1931 as compared with 1930.

Radio broadcasting formed a large part in our Safety campaign. Your General Manager broadcast through the courtesy of CFRB and CKGW, and weekly broadcasts were also given through the courtesy of Mr. Charles Shearer, Studio Director of Station CFRB, each week as opportunity offered. The material for these weekly broadcasts was supplied by the League.

By invitation of the Hamilton Chamber of Commerce, the Seventeenth Annual Luncheon Meeting was held at the Royal Connaught Hotel on Friday, February 27th, 1931. The proceedings of this meeting were supplied to all members, and for that reason we do not think it necessary to publish them in our Eighteenth Annual Report. It is only fair, however, to the readers of this report, that we should publish the splendid and wonderful talk, contributed to the cause of Safety, by Controller James Simpson. We cannot refrain from remarking that more opinions like Mr. Simpson's, publicly expressed, would help greatly our work of Accident Prevention.

The report of the Public Safety Committee of the Hamilton Chamber of Commerce, will be found on pages 38 and 39, of our Report. This committee is vigilant in Hamilton and prevents accidents by constantly anticipating and removing their cause.

WENTWORTH INCLINE RAILWAY, LIMITED

PROFIT AND LOSS ACCOUNT FOR YEAR ENDED DECEMBER 31st, 1931

EARNINGS:			
Ticket Sales, Passengers, Freight, etc.			$30,500 85
EXPENSES		$30,744 76	
Fuel, Power and Light	$1,729 41		
General Expense, Taxes, Director's Fees and Salary	3,499 45		
Insurance	846 14		
Insurance Claim	180 00		
Oil and Waste	98 52		
Repairs	80 63		
Wages	18,352 65		
Depreciation	5,957 96		
	$30,744 76		
NET LOSS FOR PERIOD			243 91
		$30,744 76	$30,744 76

PROFIT AND LOSS ACCOUNT

Balance—January 1st, 1931		$168,705 47
Dividends and Interest Received		4,916 29
Income Tax Adjustment		193 92
Operating Loss for Year 1931	$243 91	
Ontario Companies Tax Paid	126 44	
Dividend Paid in 1931	1,668 00	
Balance—Per Balance Sheet	171,777 33	
	$173,815 68	$173,815 68

WENTWORTH INCLINE RAILWAY, LIMITED

BALANCE SHEET AS AT DECEMBER 31st, 1931

ASSETS

CURRENT			$187,904 56
Cash on Hand		$355 52	
Balance in Bank		10,478 03	
Savings Account	$8,807 27		
Current Account	1,670 76		
	$10,478 03		
Conductor's Loan Account		$50 00	
Accounts Receivable		200 89	
Bonds and Stocks at Cost		175,819 77	
Prepaid Expense		1,000 35	
		$187,904 56	
INVESTED			$59,943 06
Plant and Equipment, Roadbeds, etc.		$114,409 22	
Buildings		9,500 00	
Land		29,078 25	
		$152,987 47	
LESS: Reserve for Depreciation		93,044 41	
		$59,943 06	

Liabilities

Current			$3,135 50
Accounts Payable	$375 00		
Tickets Outstanding	2,460 50		
Insurance—Reserve	300 00		
	$3,135 50		
Shareholders			$244,712 12
Capital Stock	$27,800 00		
Special Reserve	45,134 79		
Profit and Loss Account	171,777 33		
	$244,712 12		
		$247,847 62	$247,847 62

ANALYSIS OF GROSS EARNINGS AND MISCELLANEOUS INCOME FOR YEAR ENDING DECEMBER 31ST, 1931

Name of Railway	From Passengers	From Mail	From Express Parcels and Newspapers	From Freight	From rental of track, buildings, and other property	From Advertising	From other miscellaneous sources	Total
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Fort Erie Ferry & Railroad Co.	Not operating							
Cornwall Street Railway	57,298 40			40,385 13		786 00	648 95	99,118 48
Fort William Electric Railway	143,106 19	900 00		24 50	6 00	875 71	1,923 78	146,836 18
Hamilton Street Railway	1,294,751 36	10,000 00		1,841 83	59 00	9,921 08	4,837 93	1,321,411 20
Hamilton & Barton Incline Railway	Statement on file with the Board							
Huntsville & Lake of Bays Railway	842 45	35 00		2,056 40				2,933 85
Hydro-Electric Railways (Essex Division)	647,302 70	2,490 62	3,254 07	1,636 98	945 94	7,071 35	26,046 37	688,748 03
Hydro-Electric Railways (Guelph Division)	59,383 79			10,293 64	1,470 64	410 00	4,050 17	75,608 24
International Railway (Niagara Falls Pk. & River Div.)	84,693 63	555 50	191 77		563 79	1,159 68	3,212 69	90,377 06
International Transit	46,090 69	400 00					890 53	47,381 22
Kingston, Portsmouth & Cataraqui	Not operating							
Kitchener-Waterloo Street Railway	103,052 47	4,442 55	63.05		831 00	1,100 00	3,581 51	113,070 58
London Street Railway	553,023 78	3,000 00			208 00	4,285 75	1,407 54	561,925 07
Mount McKay & Kakabeka Falls Railway	Line operated by City of Fort William							
Niagara Peninsular Railway				18,275 00				18,275 00
Port Arthur Civic Railway	151,517 98					807 54		152,325 52
Sarnia Street Railway	Not operating							
Sudbury-Copper Cliff Suburban Railway	79,331 71		81 60		300 00		98 00	79,811 31
Thurlow Railway				53,355 00				53,355 00
Tillson Spur Line	All rolling stock owned and operated by Canadian National Railways							
Toronto Transportation Commission	12,354,021 14		7,938 62		123,288 54	112,763 26	41,762 73	12,639,774 29
Toronto Transportation Commission North Yonge Railway	91,878 21			1,207 88	2,033 52	892 12	353 52	96,365 25
Toronto Transportation Commission, Township of York & Weston Railway	271,822 52					2,377 68	207 59	274,407 79
Wentworth Incline Railway	See Statement							

TABULATION OF CAR MILES RUN, PASSENGERS CARRIED, ACCIDENTS, ETC., FOR YEAR ENDING DECEMBER 31ST, 1931

Name of Railway	Length of track owned, miles	Length of switches and sidings miles	Passenger car miles run	Passengers carried	Passengers carried per mile of main track owned	Accidents		Number of men employed	Passenger Cars			Other				Service Cars				Miscellaneous		Cost of railway construction equipment, land and buildings per mile of track owned
						Killed	Injured		Enclosed Cars	Open Cars	Trailers	Baggage and mail	Cattle and box	Platform	Coal and dump	Tool	Snow sweepers	Snow plows	Loading cranes	Locomotives	Ferry boats	
Buffalo & Fort Erie Ferry & Railroad Co.	Not oper	ating																				
Cornwall Street Railway	5.00	2.50	307,078	1,321,936	264,387	....	1	39	16	....	....	....	....	....	....	....	2	1	....	2	....	$57,288 24
Fort William Electric Railway	18.916	6.580	791,856	2,359,326	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	48,203 64
Hamilton Street Railway	34.3	....	2,854,536	19,420,103	....	....	....	370	88	....	....	....	....	....	....	....	4	....	....	....	....	143,686 02
Hamilton & Barton Incline Ry.	Stateme	nt on file	with the B	oard																		
Huntsville & Lake of Bays Ry.	1.438	.312	††	5,616	....	....	....	....	....	3	1	2	....	5	....	....	....	....	....	....	....	17,332 11
Hydro-Electric Railway (Essex Division)	56.580	5.238	2,735,783	9,522,017	168,292	2	6	243	67	....	1	2	....	4	....	2	1	....	....	....	....	88,117 00
Hydro-Electric Railway (Guelph Division)	6.412	2.094	338,050	1,100,716	171,665	2	4	36	7	....	....	....	....	....	....	....	1	....	....	1	....	52,206 00
International Railways (Niagara Falls Park and River Div.)	22.622	1.314	217,669	485,576	20,286	....	20	24	15	22	....	....	....	2	....	....	....	1	....	....	....	64,654 01
International Transit	4.97	.09	235,278	925,712	273,071	....	6	17	6	....	1	....	....	....	....	....	1	....	....	....	....	126,473 29
Kitchener-Waterloo Street Ry.	9.41	.94	352,634	2,530,851	268,953	....	1	31	....	....	....	....	....	....	....	....	....	....	....	....	....	49,600 08
London Street Railway	22.87	.96	††	††	††	3	78	....	32	9	....	....	....	....	....	....	2	....	....	....	....	55,985 73
Mount McKay & Kakabeka Falls Railway	6.5	1.5	Line opera	ted by City	of Fort W	illia	m	....	....	....	....	....	....	....	10	....	....	....	....	....	....	26,784 72
Niagara Peninsular Railway	3.325	2.115	....	....	....	....	6	....	....	....	....	....	....	1	56	....	....	....	....	3	....	10,211 56
Port Arthur Civic Railway	19.53	1.04	695,820	2,440,589	124,966	....	2	54	....	....	....	....	....	....	....	....	....	....	....	....	....	31,592 94
Sudbury-Copper Cliff Suburban Railway	7.9	....	167,900	824,702	104,392	....	....	20	12	....	....	....	....	....	....	....	....	1	....	....	....	45,526 68
Thurlow Railway	2.671	4.666	....	....	....	....	20	....	....	....	....	....	....	2	40	....	....	....	....	5	....	11,379 78
Tillson Spur Line	1.010	.051	All rolling s	tock owned	and opera	ted	by C	anad	ian	Nati	onal	Rys.	....	....	....	....	....	....	....	....	....	....
Toronto Trans. Commission	222.641	31.855	29,732,470	187,090,330	....	11	1,294	4,182	729	....	258	....	....	....	....	....	30	10	....	....	....	199,403 05
T.T.C.—North Yonge Railway	10.342	1.419	325,810	1,029,775	....	4	Rail	way	oper	ated	wit	h rol	ling	stoc	k ow	ned	by T	T.C.				9,144 55
T.T.C.—Twp. of York & Weston Railway	14.065	.148	768,096	5,582,617	....	....	12	Rail	way	oper	ated	wit	h rol	ling	stoc	k ow	ned	byT.	T.C.			97,262 05
Wentworth Incline Railway	See stat	ement.																				

††Car miles not reported.

TABULATION OF COMPARISON WITH PREVIOUS YEARS AS TO CAR MILES RUN, PASSENGERS CARRIED ETC.

FOR YEAR ENDING DECEMBER 31ST, 1931

Name of Railway	Length of Track		Car Miles Run		Passengers Carried		Accidents				Net Earnings	
							Killed		Injured			
	In-crease	De-crease	In-crease	De-crease	In-crease	De-crease	In-crease	De-crease	In-crease	De-crease	Increase	Decrease
											$ c.	$ c.
Buffalo & Fort Erie Ferry & Railroad Co.	Not operating											
Cornwall Street Railway	150			10,883	66,174				1		1,415 07	
Fort William Electric Railway				48,267		454,922				5		†5,631 35
Hamilton Street Railway				237,657		3,237,440				12		3,665 63
Hamilton & Barton Incline Railway	See statement on file with the Board											
Huntsville & Lake of Bays Railway			††	††		2,563						170 52
Hydro-Electric Railways (Essex Division)	.75			511,938		3,877,264		1		25		†209,796 54
Hydro-Electric Railways (Guelph Radial)			8,434			176,380	2		2		*677 74	
International Railway Co. (Niagara Falls Park and River Division)				56,347		245,563				5		†8,408 46
International Transit				14,950		339,107			4			6,313 82
Kitchener-Waterloo Street Railway				3,462		434,295				2		402 89
London Street Railway		4.82	††	††	††	††	3			78	*2,095 33	
Mount McKay & Kakabeka Falls Railway	Line operated by City of Fort William										*2,228 71	
Niagara Peninsular Railway												19,468 70
Port Arthur Civic Railway				35,428		602,473						25,115 97
Sudbury-Copper Cliff Suburban Railway				52,171		435,727						6,030 56
Tillson Spur Line	All rolling stock owned and operated by Canadian National Railway											
Thurlow Railway			††	††	††	††						8,867 87
Toronto Transportation Commission	.768			2,111,942		16,590,171		1		412		108,763 47
Toronto Tran. Com.—North Yonge Railway	Operated in 1931 under "Township North York Act, 1930"											
Toronto Trans Com.—Twp. York & Weston Ry.				16,609		547,000				4		†30,585 26
Wentworth Incline Railway	See Statement											

*Decrease in deficit. †Increase in deficit. ††Not reported.

TABULATION OF OPERATING COSTS FOR YEAR ENDING DECEMBER 31st, 1931

Name of Railway	General Expenses	Maintenance of Roadbed and Buildings	Maintenance Equipment	Motive Power	Wages	Damage to Persons and Property	Miscellaneous	Total	Operating Cost per Car Mile Run
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Ft. Erie Ferry & Railroad Co.	Not operating								
Cornwall Street Railway	10,601 16	4,707 70	13,198 35	3,784 33	25,438 95	113 87	710 87	58,555 23	19,068
Fort William Electric Railway	13,819 78	14,729 98	22,740 01	20,489 90	65,353 62	510 80	2,242 89	139,886 98	17,665
Hamilton Street Railway	45,358 96	65,765 62	191,493 70	149,204 60	377,531 73	55,455 42	135,412 39	1,020,222 42	35,740
Hamilton & Barton Incline Railway	See statement on file with the Board								
Huntsville & Lake of Bays Railway	198 78	243 46	202 81	....	656 38	....	411 52	1,712 95	††
Hydro-Electric Rys (Essex Division)	124,255 78	54,425 07	107,813 37	115,390 56	245,651 96	114 45	57,054 52	704,705 71	25,685
Hydro-Electric Rys. (Guelph Radial)	14,552 89	7,947 31	23,072 23	7,104 70	23,087 18	....	2,375 65	78,139 96	23,144
International Railway (Niagara Falls Park and River Division)	39,786 04	17,942 19	10,358 58	14,475 73	33,835 73	6,246 30	4,708 92	127,353 49	58,508
International Transit Co.	8,710 79	2,312 84	5,484 66	7,920 00	13,088 42	....	5,050 03	42,566 74	18,092
Kitchener-Waterloo Railway	12,751 54	6,706 54	2,880 06	11,737 09	43,177 15	....	3,279 00	80,531 38	22,837
London Street Railway	19,707 70	37,737 08	37,595 95	39,602 31	94,614 02	9,033 80	227,111 66	465,402 52	††
Mount McKay & Kakabeka Falls Ry.	Line operated by City of Fort William								
Niagara Peninsular Railway	115 10	3,276 45	2,783 92	....	3,430 80	....	2,398 00	12,004 27	††
Port Arthur Civic Railway	14,238 07	15,118 15	22,730 04	19,999 92	42,441 61	....	19,818 20	134,345 99	19,321
Sudbury-Copper Cliff Suburban Ry Co.	6,834 96	4,733 92	9,740 73	13,693 36	22,306 61	....	4,041 17	61,350 75	36,480
Tillson Spur Line Railway	All rolling stock owned and operated by Canadian National Railway								
Thurlow Railway	115 10	10,776 69	9,651 89	810 28	7,894 05	....	5,263 72	34,511 73	††
Toronto Transportation Commission	585,077 56	514,180 39	735,472 75	1,143,106 23	3,646,643 55	56,894 80	1,227,390 24	7,912,765 52	26,579
T.T.C.—North Yonge Railway	10,380 01	7,554 69	9,725 48	28,161 88	....	....	45,062 92	100,884 98	30,964
T.T.C.—Twp. of York & Weston Ry.	20,550 62	13,578 03	22,933 66	43,806 30	....	....	113,745 40	214,614 01	27,941
Wentworth Incline Railway	See statement								

††Car miles not reported.

TABULATION OF CHARGES OTHER THAN OPERATING COSTS FOR YEAR ENDING DECEMBER 31st, 1931

Name of Railway	Interest on Funded Debt	Interest or Discount on Funded Debt	Taxes	Transfer to Special Accounts	All Charges other than Operating Costs	Total Expenditure including Operating Costs	Total Expenditure excluding Operating Costs	Total Revenue from all sources	Per Car Mile Run		Net Deficit from Year's Operations	Net Surplus from Year's Operations
									Total Expenditure	Total Revenue		
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Fort Erie Ferry & Railroad Co.	Not operating											
Cornwall Street Railway	9,100 00	....	2,150 38	15,208 03	26,458 41	a69,805 61	a11,250 38	99,768 48	a22,732	32,489	....	†8,754 84
Fort William Electric Railway	59,580 00	....	....	30,926 72	90,506 72	a199,466 98	a59,580 00	153,915 07	a25,206	19,437	76,478 63	....
Hamilton Street Railway	....	....	78,284 19	....	78,284 19	1,098,506 61	78,284 19	1,321,411 20	38,482	46,293	....	222,904 59
Hamilton & Barton Incline	Statement on file with the Board											
Huntsville & Lake of Bays Ry.	....	....	83 39	....	83 39	1,796 34	83 39	2,933 85	††	††	....	1,137 51
Hydro-Electric Rys. (Essex Div.)	282,226 03	....	5,690 01	136,402 45	424,318 49	a992,621 75	a287,621 75	688,748 03	a36,282	25,102	440,276 17	....
Hydro-Elec. Rys. (Guelph Radial)	26,777 25	....	353 91	3,993 38	21,124 54	105,271 12	a27,131 16	75,608 24	a31,140	22,366	33,656 26	....
International Ry. (Niagara Falls Park and River Div.)	30,000 00	....	12,352 01	52,128 96	94,480 97	a169,705 50	a42,352 01	109,530 74	a77,965	50,319	112,302 72	....
International Transit	....	3,875 00	3,597 31	14,022 16	21,494 47	a50,039 05	a7,472 31	b79,773 97	a21,268	b33,949	....	15,712 76
Kitchener-Waterloo Street Ry.	....	11,496 10	573 74	19,469 36	31,529 20	a92,601 22	a12,069 84	113,070 58	a26,259	32,065	....	1,000 00
London Street Railway	28,500 00	3,735 51	9,824 30	67,850 00	109,909 81	a507,462 33	a42,059 81	561,925 07	††	††	13,387 36	....
Mount McKay & Kakabeka Falls Railway	....	....	466 44	21,230 83	22,083 82	....	852 99	4,298 03	††	††	17,785 79	....
Niagara Peninsular Railway	....	....	33 25	....	33 25	12,037 52	33 25	18,275 00	††	††	....	6,237 08
Port Arthur Civic Railway	24,058 01	....	121 78	9,877 22	34,057 01	a158,525 78	a24,179 79	154,671 98	a22,782	22,228	13,731 02	....
Sudbury-Copper Cliff Suburban Railway	4,500 00	3,200 00	197 06	12,983 04	20,880 10	a69,247 81	a7,897 06	79,811 31	a41,240	87,481	2,419 54	....
Tillson Spur Line	All rolling stock owned and operated by Canadian National Railway											
Thurlow Railway	....	....	26 71	11,526 02	16,552 73	a39,538 44	a5,026 71	44,095 00	††	††	6,969 46	....
Toronto Trans. Commission	1,925,703 50	....	192,306 32	2,756,257 47	4,874,267 29	a10,030,775 34	a2,118,009 82	12,800,638 67	a33,737	43,053	....	13,605 86
T.T.C.—North Yonge Railway	....	....	110 23	475 00	585 23	a100,995 21	a110 23	96,365 25	a30,998	29,580	5,104 96	....
T.T.C.—Twp. of York & Weston Railway	58,755 16	5,792 14	....	79,012 97	143,560 27	a279,161 31	a64,547 30	274,407 79	a35,566	34,944	83,766 49	....
Wentworth Incline Railway	See statement											

aDoes not include transfers to special accounts. bIncludes $32,392.75—net income from ferry operation. ††Includes dividend 6% on $100,000.00—$6,000.00.

TABULATION OF ASSETS AND LIABILITIES AS OF DECEMBER 31st, 1931

Name of Railway	Authorized Capital Stock	ASSETS			LIABILITIES				
		Cost of Railway Equipment, Land and Buildings	Cash and other Assets	Deficit	Capital Stock outstanding	Funded Debt	Current Liabilities	Accrued Liabilities	Surplus
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Buffalo & Fort Erie Ferry & Railroad Co.	Not operating								
Cornwall Street Railway	200,000 00	429,699 50	8,507 00	....	200,000 00	130,000 00	11,205 94	71,446 40	25,554 16
Fort William Electric Railway	....	1,229,000 00	763,198 45	19,951 93	1,229,000 00	....	23,097 79	760,052 59	....
Hamilton Street Railway	3,205,000 00	4,928,430 79	61,796 46	....	3,205,000 00	....	505,525 36	838,384 93	441,316 96
Hamilton & Barton Incline Railway	Statement on file with the Board								
Huntsville & Lake of Bays Railway	50,000 00	31,331 20	11,123 37	....	27,800 00	....	2,021 18	11,495 88	1,137 51
Hydro-Electric Railways (Essex Division)	....	5,447,241 52	787,155 92	73,293 13	....	5,816,205 00	178,815 66	312,669 91	....
Hydro-Electric Railways (Guelph Radial)	....	444,070 06	62,680 56	7,264 02	....	300,000 00	86,584 36	127,430 28	....
International Railway (Niagara Falls Park and River Div.)	Not reported								
International Transit	150,000 00	639,954 88	19,565 07	....	150,000 00	....	49,382 05	293,285 22	166,852 68
Kitchener-Waterloo Railway	....	513,350 90	55,906 24	....	....	202,462 47	450 24	365,344 43	1,000 00
London Street Railway	637,480 00	1,334,140 01	71,468 77	28,869 85	637,480 00	475,000 00	85,051 06	236,947 57	....
Mount McKay & Kakabeka Falls Railway	500,000 00	190,171 57	62,076 13	171,907 07	386,300 00	....	....	37,854 77	....
Niagara Peninsular Railway	200,000 00	55,550 88	82,889 87	....	50,000 00	....	....	....	88,440 75
Port Arthur Civic Railway	....	649,866 87	528,536 05	....	....	551,984 00	34,857 67	483,816 15	107,745 10
Sudbury-Copper Cliff Suburban Railway	250,000 00	359,660 80	1,786 40	22,720 49	173,100 00	75,000 00	50,024 22	86,043 47	....
Tillson Spur Line	30,000 00	....	....	....	....	....	....	....	....
Thurlow Railway	50,000 00	83,493 50	....	28,506 60	25,000 00	....	87,000 00	....	....
Toronto Transportation Commission	....	50,746,679 19	6,808,237 65	....	....	34,671,293 04	922,953 48	21,294,172 64	666,497 68
T.T.C.—North Yonge Railways	....	107,549 10	1,218 02	5,104 96	....	....	113,872 08	....	....
T.T.C.—Township of York and Weston Railway	....	1,382,405 60	244,658 16	83,766 49	....	1,143,165 69	132,550 68	435,113 88	....
Wentworth Incline Railway	See statement								

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RETURN FROM THE RECORDS

OF THE

BY-ELECTION

TO THE

LEGISLATIVE ASSEMBLY

IN THE ELECTORAL DISTRICT OF

WEST YORK, held on the 17th and 28th days of May, 1932.

SHOWING

(1) The number of Votes Polled for each Candidate;
(2) The majority whereby the successful Candidate was returned;
(3) The total number of Votes Polled;
(4) The number of Votes remaining Unpolled;
(5) The number of Names on the Polling Lists;
(6) The number of Ballot Papers sent out to each Polling Place;
(7) The Used Ballot Papers;
(8) The Unused Ballot Papers;
(9) The Rejected Ballot Papers;
(10) The Cancelled Ballot Papers;
(11) The Declined Ballot Papers; and
(12) The Ballot Papers taken from Polling Places;
(13) The number of printed Ballots not distributed to D.R.O's.
(14) The number of ballot papers printed.

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 25, 1933

ONTARIO

TORONTO
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1933

To The Honourable
The Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:

The undersigned has the honour to present to Your Honour the Return of the By-Election as held in the Electoral District of West York in the year 1932.

Respectfully submitted,

WILLIAM H. PRICE,
Attorney-General.

Department of the Attorney-General,
February 1st, 1933.

The Honourable W. H. Price,
Attorney-General.

Sir:

I have the honour to submit to you the Return of the By-Election as held in the Electoral District of West York in the year 1932.

Respectfully submitted,

C. F. BULMER,
Clerk of the Crown in Chancery.

Toronto, February 1st, 1933.

Constituency	Seat Vacated by the	Date
York West	Death of Member	January 6th, 1932

RETURNING OFFICER

Constituency	Name	Post Office
York West	Robert J. Wallace	Swansea

STATEMENT OF VOTES POLLED: Number of Polling Places and Number of Names on Voters' Lists

Constituency	No. of Polling Places	No. of Votes Polled	No. of Names on Voters' Lists
York West	110	15,907	35,406

SUMMARY OF VOTES CAST AT THE BY-ELECTION HELD IN THE YEAR 1932

Showing the number of votes polled for each candidate and the majority accorded to the one elected.

Constituency	Candidates	Votes Polled	Remarks
York West	Henry I. Price	6,485	
	William G. Gardhouse	5,641	
	John W. Buckley	3,699	
	James M. Reid	82	
	Majority for Price	844	

C. F. Bulmer,
Clerk of the Crown in Chancery.

RETURN FROM THE RECORDS OF THE BY-ELECTION TO THE LEGISLATIVE ASSEMBLY IN 1932

Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each				Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place						
		Buckley	Gardhouse	Price	Reid	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
West York...	Long Branch.........No. 1 A	35	44	52	....	131	721	1,334	300	131	169	....	....	....	....
	" .... " 1 B	42	44	56	....	142			300	142	158	....	....	....	....
	" .... " 1 C	46	43	63	1	153			300	153	147	....	....	....	....
	" .... " 1 D	27	37	56	1	121			300	125	171	4	....	....	....
	" .... " 1 E	14	17	34	1	66			200	66	134	....	....	....	....
	" .... " 2 A	60	32	77	....	169	365	780	325	173	148	3	....	1	....
	" .... " 2 B	30	29	57	4	120			225	124	97	4	....	....	....
	" .... " 2 C	47	21	58	....	126			250	129	118	3	....	....	....
	Etobicoke Twp....... " 3 A	31	87	83	1	202	520	1,059	375	202	173	....	....	....	....
	" .... " 3 B	25	61	76	1	163			325	164	160	1	....	....	....
	" .... " 3 C	35	62	77	....	174			375	175	199	1	....	....	....
	" .... " 4 A	49	55	62	....	166	1,044	1,198	400	166	234	....	....	....	....
	" .... " 4 B	38	47	79	4	168			450	169	280	1	....	....	....
	" .... " 4 C	44	50	58	2	154			400	154	246	....	....	....	....
	" .... " 5 A	86	32	59	....	177	525	1,303	350	178	171	1	....	....	....
	" .... " 5 B	102	43	78	2	225			350	226	123	1	....	....	....
	" .... " 5 C	130	24	34	....	188			350	190	158	....	....	2	....
	" .... " 5 D	105	32	51	....	188			350	190	158	1	....	1	....
	" .... " 6 A	27	72	186	1	286	650	1,184	600	288	310	2	....	....	....
	" .... " 6 B	14	60	172	2	248			600	248	352	....	....	....	....
	" .... " 7 A	46	64	59	....	169	857	1,485	400	170	229	....	1	....	....
	" .... " 7 B	27	61	64	....	152			375	153	221	1	....	....	....
	" .... " 7 C	26	76	46	....	148			400	149	250	1	....	....	....
	" .... " 7 D	24	60	74	1	159			350	159	191	....	....	....	....
	" .... " 8 A	17	90	73	....	180	328	685	350	192	152	6	....	....	....
	" .... " 8 B	8	96	72	1	177			350	178	171	1	....	....	....

Robert J. Wallace,
Returning Officer.

RETURN FROM THE RECORDS OF THE BY-ELECTION TO THE LEGISLATIVE ASSEMBLY IN 1932—*Continued*

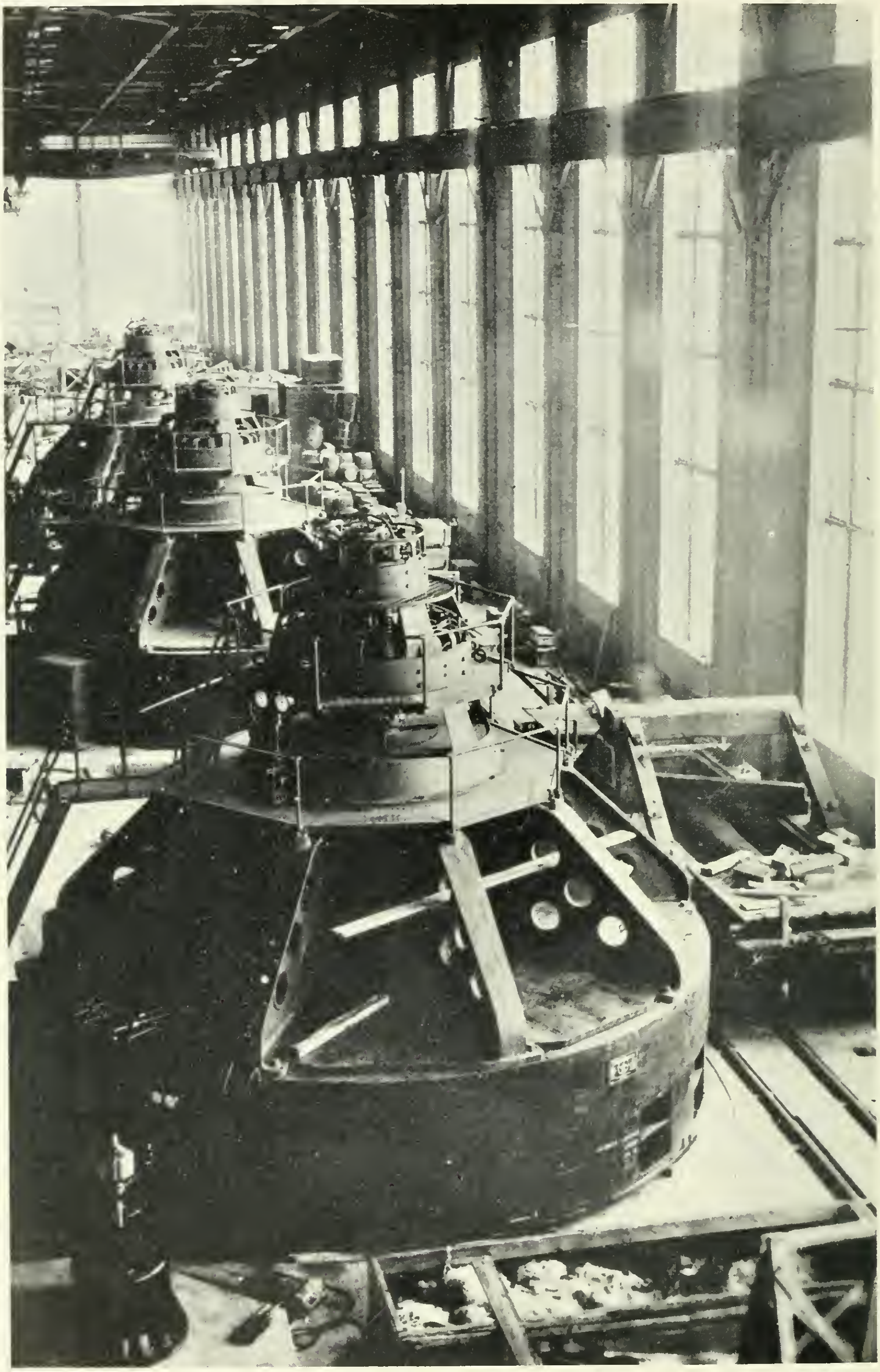
Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each				Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place						
		Buckley	Gardhouse	Price	Reid	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
West York—*Con.*	Etobicoke Twp.......No. 9	2	77	16	....	95	83	178	200	95	105	....	....	....	....
	" .... " 10	5	225	69	....	299	139	438	450	303	143	4	....	....	....
	" .... " 11	....	114	19	....	133	62	195	200	133	67	....	....	....	....
	" .... " 12	10	77	64	1	152	183	335	350	154	194	....	2	....	....
	New Toronto........ " 1	47	30	88	1	166	149	315	325	167	157	1	....	....	....
	" .... " 2	79	80	104	....	263	260	523	525	264	260	1	....	....	....
	" .... " 3	48	70	69	....	187	297	484	500	191	305	3	....	1	....
	" .... " 4	54	81	101	1	237	233	470	475	237	238	....	....	....	....
	" .... " 5	66	48	57	....	171	180	351	350	174	173	2	1	....	....
	" .... " 6	47	40	55	1	143	109	252	250	147	99	4	....	....	....
	" .... " 7	39	23	55	....	117	100	217	225	120	102	2	1	....	....
	" .... " 8	38	43	52	....	133	137	270	275	134	140	1	....	....	....
	" .... " 9	47	30	67	1	145	150	305	325	146	178	1	....	....	....
	" .... " 10	73	57	70	4	204	256	512	525	208	313	4	....	....	....
	Special Poll, Ont. Hospital.....	2	4	45	1	52			125	55	67	2	....	1	....
	Mimico.............No. 1 A	4	33	29	....	66	170	306	175	67	107	1	....	....	....
	" .... " 1 B	16	28	25	1	70			150	70	80	....	....	....	....
	" .... " 2 A	9	46	46	....	101	156	390	200	104	93	2	1	....	....
	" .... " 2 B	13	65	54	1	133			200	133	67	....	....	....	....
	" .... " 3	16	85	90	4	195	124	389	400	198	199	3	....	....	....
	" .... " 4 A	8	24	28	....	60	125	268	125	61	63	1	....	....	....
	" .... " 4 B	7	32	26	....	65			150	67	81	....	2	....	....
	" .... " 5	46	110	72	....	228	266	494	500	231	266	3	....	....	....
	" .... " 6 A	9	47	57	....	113	237	445	250	114	135	1	....	....	....
	" .... " 6 B	8	35	52	....	95			200	97	101	....	2	....	....

“	“ 7 A	35	34	43	....	112	278	490	250	113	136	1	....	....	....
“	“ 7 B	18	42	39	1	100			250	101	148	1	....	....	....
“	“ 8 A	48	31	36	....	115	220	453	250	116	133	1	....	....	....
“	“ 8 B	46	27	44	1	118			200	119	80	1	....	....	....
“	“ 9 A	46	42	39	7	134	195	433	250	135	114	1	....	....	....
“	“ 9 B	35	40	36	3	114			200	117	80	2	1	....	....
“	“ 10	46	24	63	4	137	107	244	250	141	105	4	....	....	....
Swansea	No. 1	15	80	97	....	192	377	569	575	192	383	....	....	....	....
“	“ 2	25	78	93	....	196	344	540	550	196	354	....	....	....	....
“	“ 3	34	51	78	....	163	327	490	500	164	335	1	....	....	....
“	“ 4	24	51	70	1	146	289	435	450	148	300	2	....	....	....
“	“ 5	32	48	70	....	150	294	444	450	151	298	1	....	....	....
“	“ 6	8	53	65	....	126	344	470	475	126	349	....	....	....	....
“	“ 7	36	48	71	1	156	276	432	450	163	280	7	....	....	....
Weston	No. 1 A	4	105	66	....	175	295	635	325	177	146	....	2	....	....
“	“ 1 B	20	106	39	....	165			350	167	181	1	1	....	....
“	“ 2 A	3	81	64	1	149	316	589	300	151	147	2	....	....	....
“	“ 2 B	4	80	40	....	124			300	125	174	....	....	1	....
“	“ 3 A	7	41	50	1	99	347	551	300	100	199	1	....	....	....
“	“ 3 B	2	49	54	....	105			250	105	145	....	....	....	....
“	“ 4 A	5	96	67	1	169	405	753	375	170	204	1	....	....	....
“	“ 4 B	8	115	56	....	179			375	183	188	3	....	1	....
“	“ 5 A	6	88	72	1	167	314	622	325	167	158	....	....	....	....
“	“ 5 B	7	87	46	1	141			300	141	159	....	....	....	....
York Twp.	No. 77	33	53	41	....	127	102	229	250	129	119	....	....	2	....
“	“ 78	59	37	44	....	140	181	321	325	143	179	3	....	....	....
“	“ 79	73	26	59	1	159	183	342	350	160	189	1	....	....	....
“	“ 80	56	46	92	....	194	172	366	375	199	171	5	....	....	....
“	“ 81	71	21	39	....	131	132	263	275	132	142	1	....	....	....
“	“ 82	111	34	57	3	205	199	404	425	207	216	2	....	....	....
“	“ 83	45	43	88	1	177	163	340	350	178	171	1	....	....	....
“	“ 84	34	20	50	1	105	170	275	275	108	164	3	....	....	....
“	“ 85	43	53	126	1	223	274	497	500	230	263	6	....	1	....
“	“ 86	59	45	66	3	173	197	370	375	175	198	2	....	....	....
“	“ 87	52	28	76	2	158	160	318	325	161	161	3	....	....	....
“	“ 88	42	37	49	1	129	153	282	300	131	167	2	....	....	....
“	“ 89	57	44	104	....	205	246	451	450	207	241	2	....	....	....
“	“ 90	75	45	60	....	180	220	400	400	182	216	1	1	....	....
“	“ 91	71	22	61	....	154	183	337	350	155	194	1	....	....	....
“	“ 92	27	23	45	....	95	166	261	275	96	178	1	....	....	....
“	“ 93	24	53	46	....	123	176	299	300	125	173	2	....	....	....
“	“ 94	38	32	60	2	132	198	330	350	132	218	....	....	....	....
“	“ 95	25	49	38	....	112	222	334	350	114	234	2	....	....	....
“	“ 96	23	30	34	....	87	174	261	275	87	188	....	....	....	....
“	“ 97	42	50	65	....	157	278	435	450	158	291	1	....	....	....

RETURN FROM THE RECORDS OF THE BY-ELECTION TO THE LEGISLATIVE ASSEMBLY IN 1932—*Continued*

Electoral District	Numbers of Polling Places	Names of Candidates and Number of Votes Polled for Each				Voters at each Polling Place			Ballot Papers sent out and how disposed of in each Polling Place						
		Buckley	Gardhouse	Price	Reid	Total Number of Votes Polled.	Number of Votes remaining Unpolled.	Number of Names on the Polling Lists.	Number of Ballot Papers sent out to each Polling Place.	Used Ballot Papers.	Unused Ballot Papers.	Rejected Ballot Papers.	Cancelled Ballot Papers.	Declined Ballot Papers.	Ballot Papers taken from Polling Places.
West York—*Con.*	York Twp. . . . . No. 98	69	61	65	....	195	385	580	600	196	403	1	....	....	....
	" . . . . " 99	44	31	40	....	115	273	388	400	118	279	....	....	3	....
	" . . . . " 100	40	82	48	1	171	346	517	525	173	350	2	....	....	....
	" . . . . " 101	52	20	24	....	96	87	183	200	97	102	1	....	....	....
	" . . . . " 102	25	44	25	1	95	260	355	375	95	280	....	....	....	....
	" . . . . " 103	1	44	25	....	70	161	231	250	70	180	....	....	....	....
	" . . . . " 104	5	36	33	....	74	269	343	350	75	274	1	....	....	....
	" . . . . " 105	2	46	39	....	87	225	312	325	87	238	....	....	....	....
	" . . . . " 106	46	43	71	3	163	277	440	450	165	283	2	....	....	....
	" . . . . " 107	3	68	70	....	141	136	378	400	141	259	....	....	....	
	" . . . . " 108	4	18	57	....	79	170	249	250	79	171	....	....	....	....
	Advance Poll, New Toronto . . .	....	10	3	....	13	......	......	100	13	87	....	....	....	....
	" Mimico	6	4	20	1	31	......	......	100	31	69	....	....	....	....
	" York Twp.	....	3	1	....	4	......	......	100	4	96	....	....	....	...
	Totals	3,699	5,641	6.485	82	15,907	19,692	35,406	36,850	16,085	20,593	143	15	14	....
	Majority for Price			844											

Total number of printed ballots not distributed to D.R.O.'s: 1,655.
Total number of ballot paper printed: 38,505.



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

TWENTY-FOURTH ANNUAL REPORT

OF THE

HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1931

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

ONTARIO

TORONTO
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1932

THE

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

Hon. J. R. Cooke, M.L.A.	*Chairman*
C. Alfred Maguire	*Commissioner*
Rt. Hon. Arthur Meighen, P.C., K.C.	*Commissioner*
W. W. Pope	*Secretary*
F. A. Gaby, B.A.Sc., D.Sc	*Chief Engineer*

TO THE RIGHT HONOURABLE SIR WILLIAM MULOCK, K.C.M.G., P.C., C.J.O.,
Administrator of the Government of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Twenty-fourth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1931.

This Report covers all of the Commission's activities and also embodies the financial statements for the calendar year 1931, of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

Dealing, as it does, with a multiplicity of activities relating to several electrical systems obtaining power from thirty-nine hydro-electrical developments operated by the Commission, supplemented by power purchased from other sources, and recording financial and other data relating to the individual local municipal electric utilities, the Annual Report presents a large amount of statistical information, much of which must, of necessity, be of a summary character.

The financial statements, the statistical data and the general information given, however, are so arranged and presented as to give a comprehensive survey of the Commission's operations. Not only does the Report record the progress made during the past year, but it gives, in addition, certain cumulative results for the various periods during which operation has been maintained in the respective municipalities.

At the end of the fiscal year the number of municipalities served in Ontario by the Commission was 721. This number included 27 cities, 93 towns, 263 villages and police villages and 338 townships. With the exception of 12 suburban sections of townships known as voted areas, the townships and 86 of the smaller villages are served as parts of 167 rural power districts.

Constructional Activities

The chief constructional activities of the Commission during 1931 comprised the completion to the initial operating stage of the Chats Falls development on the Ottawa river with its associated 220,000-volt step-up transformer station; the placing in service of the second and third units at Alexander power development which serves the Thunder Bay system; improvements and repairs at the

Big Chute plant on the Severn river, and at the South Falls plant on the South Muskoka river—two of the plants serving the Georgian Bay system; the building of one new bridge and the reconstruction of a portion of a second in connection with the Queenston-Chippawa development; the completion of work in connection with the concrete envelope around conduit No. 3 at the Ontario Power plant at Niagara; the construction on separate towers of a third circuit of the Hydro 220,000-volt transmission lines, to convey the power to be developed at Chats Falls; the construction of a new 132,000-volt transmission line, 189 miles long between Hunta and Sudbury in Northern Ontario; the addition of two transformer banks at Toronto-Leaside transformer station, also two transformer banks at Toronto-Bridgman transformer station; the completion of transformer stations in Hamilton and near Kingston; the construction of a number of smaller distributing stations on the several systems; the addition of transformer capacity to many transforming and distributing stations, and the construction of about 1,470 miles of primary lines in rural power districts.

The virtual completion of the hydraulic structures of the joint Chats Falls development of the Commission and the Ottawa Valley Power Company, within a period of little more than two years from the commencement of construction is an exceptional achievement. Favourable climatic and stream-flow conditions prevailed during the construction period and greatly facilitated the progress of the work. The ultimate capacity provided for is 280,000 horsepower of which 224,000 horsepower in eight units is at present being installed. The maximum head developed is 58 feet. The dam has a length at the crest line exceeding three miles, but nowhere is of great height. The power house straddles the interprovincial boundary and half the generating units are placed on the Ontario side and half on the Quebec side. Descriptions of both the hydraulic and electrical features of the Chats Falls plant are given in the body of this report.

At Alexander power development on the Nipigon river, which was placed in operation last year, the second and third units were installed, bringing the capacity up to 54,000 horsepower. Headworks are installed for a fourth unit. The head developed at the site is 60 feet. A description of this development also is given in the body of this Report.

In the Abitibi district of Northern Ontario the Commission has constructed a two-circuit steel-tower transmission line 189 miles long to convey 25-cycle power purchased from the Ontario Power Service Corporation. The power is to be generated at the Abitibi Canyon on the Abitibi river and delivered to the Commission at Hunta some 55 miles from the plant. The Commission's line extends from Hunta, situated some 10 miles west of Cochrane, to Sudbury. The line is designed to operate at 132,000 volts and it is of interest to note that this voltage is the same as that employed in Great Britain for the inter-connecting transmission system there known as the "Grid." At present the line is being operated at 110,000 volts.

Throughout the various systems, changes and increases in transformer and switching equipment are constantly being made. The completion of a 15,000-kv-a. transformer station at Hamilton and the rapid design and construction of a 15,000-kv-a. transformer station at Kingston are worthy of mention. The latter station was needed at short notice to take care of the situation impending by reason of water shortage for the hydro-electric developments of central Ontario.

The consolidation of transmission networks and the tying in of large blocks of power to the Niagara system over long transmission lines brings special problems of an intricate technical character. Special devices are being installed at strategic points to minimize and localize any trouble developing.

The Commission, in connection with its several systems operates some thirty-nine hydro-electrical developments and is continually improving these as opportunity offers or as necessity arises in order to maintain the plants at the highest possible efficiency. During the past year special repairs were made to the power canal at the Big Chute plant on the Severn river, and at the South Falls development on the South Muskoka river a wood-stave penstock was replaced.

The Commission endeavours to have the surroundings of its various properties attractively laid out and maintained. In connection with the grading, etc., associated with this class of work, it has been able to give some relief to the unemployment situation in the Niagara and Eastern Ontario districts.

At Toronto-Leaside transformer station the addition of two 45,000-kv-a. transformer banks raises the capacity of the station to 270,000 kv-a. and virtually completes the installation necessary to receive the power contracted for from the Gatineau power company and the first years' output of power from the Chats Falls development. The construction of the Hydro 220,000-volt transmission lines, together with the receiving station at Leaside is a noteworthy achievement. It is the greatest undertaking of its kind in the British Empire, and in respect to climatic conditions to be provided for and the undeveloped territory traversed by about half the length of the line, is unprecedented anywhere in the world. The cost of the transmission lines and receiving stations now completed was substantially less than the estimates, thereby lowering the delivered cost of Gatineau power to the Niagara system by nearly $1.00 per horsepower below what had been anticipated when the undertaking was projected. During the year the third circuit on independent towers has been added to convey power to the Niagara system from the new Chats Falls development and power was actually delivered during the last three months of 1931. The capacity of the receiving station at Leaside will be increased as required to handle additional power from this source.

Operating Conditions

During the past year there have been no failures of moment either in station or line equipment, all of which has been maintained in its normal state of efficiency.

The output of many of the smaller hydro-electric generating plants has been curtailed because of the continued lack of rainfall. The deficiency has been particularly noticeable on the Georgian Bay and Eastern Ontario systems and on the Nipissing district where the load demand has remained at approximately the same high level as that established during the two previous years. On these systems the flow of some of the rivers dropped below any flows previously recorded by the Commission. Power shortages would have occurred if the danger had not been foreseen and arrangements, as undernoted, made in time to avert it.

On the Georgian Bay system, the Hanover frequency-changer set, which was placed in operation during the preceding year, enabled power to be transferred from the Niagara system to the Georgian Bay system in amounts sufficient to avert a shortage this year. In the Nipissing district a new transmission line from Sturgeon Falls was completed in January. For about two weeks prior to its completion some restrictions in the use of power were necessary, but thereafter the power from the generating plants of the Abitibi Power & Paper Co. made available by this line was sufficient to meet the shortage in effective generating capacity. On the Eastern Ontario system a new 110,000-volt transformer station was constructed near Kingston, enabling power demands to be met by taking additional 60-cycle power from the Gatineau Power Company at an earlier date than provided in the contract.

With the exceptions noted, there were no difficulties in meeting the demand for power.

Cost of Electrical Service Furnished by the Commission

The function of the Commission is not only to use its best endeavours to provide for the people of Ontario an adequate and reliable supply of electrical energy, but also to ensure that the cost of that electrical energy to the consumers shall be the minimum consistent with the financial stability of the enterprise. The success that has been attained in the accomplishment of the latter object may be appreciated by a careful study of the actual rates to consumers as presented in Statement "E," and of the statistical data setting forth the results that have been attained for the consumers under these rates, as presented in Statement "D," in conjunction with the various financial statements of the Report.

Load Conditions

For some years it has been the custom to present at this place in the Annual Report a tabulation showing the coincident peak loads for each of the Commission's systems at the close of the year, as compared with corresponding data for the previous year. The figures that have been presented for the Niagara system in this table have included both the Canadian load and export power. In view of circumstances arising out of the prevailing abnormal economic conditions, the trend with respect to deliveries of power for Canadian use is, this year, more accurately shown by the peak loads exclusive of export power, which loads, in summary, are as follows:*

	October 1930	December 1930	October 1931	December 1931
Niagara system (Canadian load only)....	818,526	841,400	756,032	775,180
Other systems, total..................	262,842	257,878	245,273	253,114
Grand total (Canadian loads only)......	1,081,368	1,099,278	1,001,305	1,028,294

The circumstances mentioned make it desirable also, before presenting the more extended table which corresponds to those appearing in previous Annual Reports, to refer to the influence which surplus power has exerted upon some of the totals for the past two years.

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*Loads and generating capacities must be construed with respect to operating conditions and circumstances. In addition to the comments here given, reference should be made to the general discussion in Section II, and to the graphs of the various systems—especially those for the Niagara system on pages 10 and 11.

Utilization of Surplus Power

As explained in the Commission's Annual Report for 1928, in order to assure continuity of service it is necessary to maintain a margin between the total installed capacity and the anticipated peak load. In most electrical undertakings this reserve capacity, maintained to permit overhaul of units and to meet emergencies, is called upon only for a relatively few hours in the year. Furthermore, even on systems such as those of the Commission which have a high load factor, there are, of course, daily and seasonal peaks, and since the equipment provided must be capable of taking care of the maximum demand whenever it may occur, some additional equipment must be idle during "off-peak" periods, unless a market can be found for the surplus power at such times as it may be available.

In order to effect the maximum utilization of its equipment, the Commission consistently strives to encourage the most uniform use possible of power by its customers. Its ordinary rate schedules for power, for example, enable Ontario consumers using their power for the equivalent of more than about four hours per day to obtain all additional use at lower rates for the additional energy required—in many cities less than one-third of a cent per kilowatt-hour. Special classifications are available to power consumers able and willing to arrange their power demands in a manner that assists in a more economical operation of the Commission's plants, with rates depending upon the degree to which such power consumers are prepared to adjust their demands in order to benefit the system as a whole. Such adjustments agreed to be made by consumers in their demands, range from agreements to accord the Commission the right to interrupt the power during specified hours on specified days at specified times of the year, down to the type of contract under which the Commission is placed under no obligation whatever to supply power except as it may be available and mutually advantageous to the Commission and to the customer.

Power on such special terms, on account of the uncertainties and irregularites involved, is not useable by ordinary industrial consumers, although a limited amount of such power can be and is utilized by large special industries in certain heating, electro-chemical and electro-metallurgical processes. Especially is the market limited for the type of power—known as "at-will" power—under which the vendor assumes no obligation to supply the power except as it may be available after precedence has been accorded to all other demands upon its equipment. With regard to this type of power as well as to all other types of power, the interests of Canadian consumers are given priority of consideration, but the chief market for "at-will" power is in adjacent territory served by power supply systems securing at least a large proportion of their power from steam plants. By utilizing when available this "at-will" power, such systems can, for example, reduce their expenditures for fuel.

The Commission for several years past has been able to reduce greatly the idle time of its generating units at Niagara by disposing of quantities of its surplus power to the Canadian Niagara Power Company for use in the United States under arrangements that permit of its withdrawal *at any time* when required either on account of operating emergencies or for use by Canadian industry. The sale of this power has resulted in a substantial additional revenue to the

Niagara system of the Commission. The extra revenue secured involves but little additional operating cost, and therefore reduces the cost of power to Ontario municipalities.

In October and December, 1930, it happened that at the time of the coincident peak loads on the Niagara system no contingencies arose requiring the employment of the margin of surplus capacity, and the Commission, being able to dispose of this surplus power on an "at-will" basis, created peak loads for these months higher than would otherwise have been the case. In 1931, however, due to lessened industrial activity there was a substantial curtailment in the market for surplus power, and this is reflected in the figures for October and December, 1931, in the table.

It will be appreciated, therefore, that the foregoing considerations must be kept in mind for a correct interpretation of the following tabulation which shows the power supplied to the various systems at the close of the year, including, in the case of the Niagara system and of the grand total, export power as well as power for Canadian use.*

DISTRIBUTION OF POWER TO SYSTEMS

20-MINUTE PEAK HORSEPOWER
SYSTEM COINCIDENT PEAKS

System	October 1930	December 1930	October 1931	December 1931
Niagara system	1,000,670	1,028,400	805,630	828,200
Dominion Power and Transmission System	58,579	61,528	48,659	56,166
Georgian Bay system	23,355	25,591	26,356	27,531
Eastern Ontario system†	88,678	93,560	85,857	91,253
Thunder Bay system	73,968	61,300	51,600	50,300
Northern Ontario system:				
Sudbury district	12,935	10,724	27,200	21,850
Nipissing district	3,745	3,654	3,689	4,088
Patricia district	1,582	1,521	1,912	1,926
Totals	1,263,512	1,286,278	1,050,903	1,081,314

The load conditions in the several systems are of special interest this year because of the variations from the usual load trend, as shown in the Operating section of this Report.

Notwithstanding the prevailing industrial depression, slight increases have occurred in the peak loads for some systems, but on the whole there has been a decrease in the total number of kilowatt-hours used.

Nearly all of this decrease in the kilowatt-hours can be attributed to the lessened demands of certain large chemical and industrial plants which have been particularly affected by the business depression. Omitting some of these large industrial loads in the vicinity of Niagara Falls and in the Thunder Bay system, the decrease in the kilowatt-hours used in the rest of the Province is only one-third of one per cent. The peak load in 1931, with these omissions shows a slight increase over 1930.

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*See footnote on page viii.

†Eastern Ontario system includes Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts.

Due to the reduced demands of the large chemical, pulp and other industrial plants just referred to, the Niagara and Thunder Bay systems show the largest decreases in load. In this connection it is important to recognize that decreases in actual delivery of power to a system do not imply proportionate decreases in sales of power, or in revenue. The sale of electric power is to a certain degree analogous to a leasing of generating facilities rather than to the sale of a commodity, and thus just as rentals of leased property continue even though the property may be only partially utilized by the tenant, so the power sold under contract continues to bring in revenue even though not fully utilized. In the Niagara and Thunder Bay systems the power paid for by certain industries exceeded their actual peak loads by an aggregate of about 90,000 horsepower. Consequently, with respect to sales of power and revenues therefrom, the results for the year 1931 are more favourable than might be inferred from consideration of actual deliveries of power as represented by statistics of the peak loads of the systems

The Georgian Bay system shows an increase in both peak load and kilowatt-hours. The loads in the various municipalities and districts of the Eastern Ontario and Northern Ontario systems showed both increases and decreases, but on the whole remained about the same as during the previous year.

Load conditions may be summed up by stating that there has been a marked decrease in the load of a few large industrial plants, but that except for these plants the consumption of power throughout the Province including that used for domestic and manufacturing purposes has remained at approximately the same level as during the preceding year.

Financial Summaries

It will be observed that the financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals chiefly with the operations of the Commission in the generation, transformation and transmission of electrical energy to the co-operating municipalities; and a division—Section X—which deals with the various operations of the municipal electric utilities in the localized distribution of electrical energy to consumers. In Section IX, "Rural Operating" reports are also given, which summarize the results of the local distribution of rural electrical service by the Commission to the individual consumers in rural power districts. This work is performed by the Commission on behalf of the respective townships co-operating to provide rural service.

The cumulative results of the operation of the several systems of the Commission as set forth in this Report demonstrate a sound financial condition.

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is $267,575,539.68, exclusive of government grants in respect of construction of rural power districts' lines; and the investment of the municipalities in distributing systems and other assets is $105,434,582.32, making in power and hydro-electric railway undertakings a total investment of $373,010,122.00.

CAPITAL INVESTMENT

The following statement shows the capital invested in the respective systems and municipal undertakings:

Niagara system	$182,176,761.94
Undertakings and Companies acquired from the Dominion Power and Transmission Co.	21,489,434.83
Chats Falls development	4,835,702.51
Georgian Bay system	8,203,445.46
Eastern Ontario system (including Nipissing district)	21,570,767.11
Thunder Bay system	18,406,363.39
Northern Ontario system (Sudbury, Abitibi, and Patricia districts)	5,259,255.71
Hydro-Electric railways	1,897,838.32
Office and service buildings, construction plant, inventories, etc.	3,735,970.41
	$267,575,539.68
Municipalities distributing systems and other assets (exclusive of $20,103,275.76 of municipal sinking fund equity in H.E.P.C. system)—all systems	105,434,582.32
	$373,010,122.00

REVENUE OF COMMISSION

The Commission collected from the municipal utilities and other customers, a total sum of $27,908,153.95. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of $658,751.64.

The following statement summarizes the Commission's collections from municipal electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipal electric utilities and other power customers		$27,908,153.95
Appropriated as follows:		
Operation, maintenance, administration, interest and other current expenses	$22,093,507.05	
Reserves for sinking fund, renewals, contingencies and obsolescence provided in the year	5,155,895.26	
		27,249,402.31
Net surplus credited to municipalities under cost contracts		$658,751.64

NOTE.—The above figures do not include the revenue from the operation of the undertakings and companies which were acquired by the Commission from the Dominion Power and Transmission Company, Limited, as from January 1st, 1930. From this date the Commission has continued the operation thereof under the various company franchises, and a separate revenue and expense statement is shown for these.

RURAL ELECTRICAL SERVICE

During the past few years very substantial progress has been made in Ontario in the field of rural electrification. Practically all rural electrical service is now given through rural power districts which are operated directly by the Commission. There is now rather more than $15,507,000 invested in the rural power district systems established by the Commission. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or some $7,677,000. A total of 8,197 miles of transmission lines have been constructed to date, of which 1,470 miles were constructed during the past year. There are now more than 55,000 customers supplied in the rural power districts.

RURAL POWER DISTRICTS—OPERATIONS FOR THE YEAR 1931

	Niagara system	Georgian Bay system	Eastern Ontario system	Totals
	$ c.	$ c.	$ c.	$ c.
Cost of power as provided to be paid under Power Commission Act	713,359.34	78,587.02	147,973.41	939,919.77
Cost of operation, maintenance and administration	460,488.04	37,936.44	102,331.89	600,756.37
Interest	232,017.53	23,837.08	57,205.62	313,060.23
Renewals	208,799.24	20,126.72	48,946.74	277,872.70
Obsolescence and contingencies	104,399.62	20,126.72	24,473.37	148,999.71
Sinking fund	55,496.81	5,584.70	13,101.69	74,183.20
Total expenses	1,774,560.58	186,198.68	394,032.72	2,354,791.98
Revenue from customers	1,888,536.58	170,968.00	397,484.65	2,456,989.23
Net surplus, all districts	113,976.00		3,451.93	117,427.93
Net deficit, all districts		15,230.68		15,230.68
Net surplus, all systems				102,197.25

MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities		$31,657,564.88
Cost of power	$18,409,304.24	
Operation, maintenance and administration	5,698,056.49	
Debenture charges and interest	4,569,568.79	
Depreciation and other reserves	1,793,111.69	
Total		30,470,041.21
Surplus		$1,187,523.67

Reserves of Commission and Municipal Electric Utilities

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to $115,639,726.38 made up as follows:

Niagara system	$48,503,212.29
Georgian Bay system	2,197,526.09
Eastern Ontario system	4,865,154.23
Thunder Bay system	2,597,316.84
Northern Ontario system—Sudbury and Patricia districts	86,941.78
Service building and equipment	616,737.10
Hydro-Electric railways (Guelph)	98,728.80
Insurance, workmen's compensation and staff pensions	3,438,794.76
Total reserves of the Commission	$62,404,411.89
Total reserves of municipal electric utilities	53,235,314.49
Total Commission and municipal reserves	$115,639,726.38

The consolidated balance sheet of the municipal electric utilities, on page 270, shows a total cash balance of $2,738,319.67, and bonds and other investments of $1,999,846.42. The total surplus in the municipal books now amounts to $37,794,134.98 in addition to depreciation and sundry other reserves aggregating $15,441,179.51.

The following is a brief summary of the principal operations relating to the several systems of the Commission:

Niagara System

The Niagara system embraces all territory lying between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west served with electrical energy generated at plants on the Niagara river, supplemented with purchased power transmitted from plants on the Gatineau river and the Ottawa river. A few municipalities and districts of the Niagara system are served also with power developed at Decew Falls.

Power as supplied to the Commission by the Gatineau Power Company is received by the Commission at the interprovincial boundary on the Ottawa river and is transmitted over two 220,000-volt steel-tower transmission lines to Leaside. Power obtained from Chats Falls development on the Ottawa river, which plant is being constructed jointly by the Commission and the Ottawa Valley Power Company, formerly the Chats Falls Power Company, is transmitted from Chats Falls to Leaside over a third 220,000-volt steel-tower line, which was completed and put into operation during the year.

Arrangements have already been made for additional power for this system, which should be adequate for a number of years ahead. In addition to power contracted for with the Gatineau Power Company and additional power to be obtained from the development at Chats Falls, which will provide the Commission with 216,000 horsepower, the Commission has arranged to purchase additional power, amounting to 250,000 horsepower, to be developed on the St. Lawrence river by the Beauharnois Light, Heat & Power Company, and

125,000 horsepower to be delivered to the Commission as required from a plant on the Lièvre river under a contract with the James MacLaren Company Limited, subsequently assigned to a subsidiary power company known as MacLaren-Quebec Power Company.

Since the purchase of the undertakings and companies of the Dominion Power & Transmission Company Limited, the operation of these properties has been continued by the same staff but under revised supervision. An agreement was entered into with the Hamilton Hydro-Electric System by which the Commission sold to the city of Hamilton the distribution system, substations and other properties in the city.

Negotiations are proceeding in connection with the taking over by the cities of Brantford and St. Catharines of subsidiary companies in these cities on the same basis as Hamilton.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Niagara system is $182,176,761.94, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate $48,503,212.29. This is exclusive of the undertakings and companies purchased from the Dominion Power and Transmission Company, Limited, for which separate statements of assets and liabilities, and operations are presented.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was $1,888,536.58, and the total cost of supplying the service was $1,774,560.58, leaving a balance of $113,976.00, which is placed to the credit of districts in this system.

With respect to the electric utilities of the various urban municipalities of the Niagara system, the actual cost of power supplied by the Commission during the year was $647,413.52 less than the total amount collected at the interim rates, and this sum has been credited to the Municipal Utilities. The total revenue of the municipal electric utilities served by this system was $26,275,001.25, an increase of $1,443,832.54.

The total net surplus for the year from the operation of the various municipal electric utilities was $830,967.09, after providing $1,524,420.75 for depreciation and other reserves and $1,885,361.96 for the retirement of instalment and sinking fund debentures. Forty-one municipal utilities had deficits upon the year's operations, aggregating $42,003.20, whereas the total combined surplus of the other municipal electric utilities served by this system was $872,970.29.

Georgian Bay System

The Georgian Bay system serves the area adjacent to Georgian Bay including the counties of Bruce, Grey, Dufferin and Simcoe and the northern portions of the counties of Huron, Wellington and Ontario, as well as a large portion of the district of Muskoka.

The main supply of electrical energy for the district is obtained from eight hydro-electric developments, three situated on the south branch of the Muskoka river, two on the Muskoka river at Bala, two on the Severn river, and one on the Beaver river, supplemented by power from the Niagara system obtained through two frequency-changer stations at Mount Forest and Hanover. Power is also obtained for secondary purposes from small developments at Hanover, Walkerton and Southampton, the combined capacity of which approximates 1,300 horsepower.

During the year the properties acquired in Bruce county from The Public Utilities Consolidated Corporation, a subsidiary of The W. B. Foshay Company of Minneapolis, namely The Walkerton Electric Light & Power Company, and The Saugeen Electric Light & Power Company, were consolidated with the Georgian Bay system and the distribution systems in four of the principal towns were purchased by the municipalities and placed under local management after by-laws had been passed by the ratepayers, and agreements entered into with the Commission.

Contracts for a supply of power were executed with the municipalities of Port Elgin, Southampton, Walkerton, Wiarton and Rosseau.

Although there was in the Georgian Bay system a small decrease in the demand for power in the urban centres, the difference was more than made up by an increase in the demand in the rural districts caused by extensions to existing districts and establishment of new districts. This increase, together with the demands of the new municipalities served in Bruce county, has resulted in a total peak load, approximately 1,200 horsepower in excess of that for the previous year.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Georgian Bay system is $8,203,445.46, and the accumulated reserves for renewals, obsolescence, contingencies, and sinking fund aggregate $2,197,526.09.

The revenue received for the year from customers in rural power districts of this system which are directly operated by the Commission was $170,968.00, and the total cost of supplying service was $186,198.68, leaving a balance of $15,230.68, which has been charged to districts in this system.

With respect to the electric utilities of the various urban municipalities of the Georgian Bay system, the actual cost of power supplied by the Commission for the year was $47,371.33 in excess of the revenue from the interim monthly billing. This sum has been charged to the municipalities operating under cost contracts. The total revenue of the municipal electric utilities served by this system was $1,115,202.82, an increase of $64,101.28 over the previous year.

After charging $62,450.70 for depreciation reserve and $58,994.83 for the retirement of instalment and sinking fund debentures, the net shortage from the operation of the various municipal electrical utilities was $40,777.97.

Eastern Ontario System

This system serves all of Ontario east of the areas comprising the Georgian Bay and Niagara systems. It includes the following districts: Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska.

The sources of power for the Eastern Ontario system comprise developments owned by the Commission on the Trent canal system and on the Mississippi and Madawaska rivers, and purchased supplies from the Cedar Rapids Power Company, the Gatineau Power Company, the Rideau Power Company, the Corporation of Campbellford and Beach Estate at Iroquois.

During the year, the voltage of the transmission line from Smiths Falls to Kingston, over which the power purchased from the Gatineau Power Company is supplied, was increased from 44,000 volts to 110,000 volts and a new transformer station erected at Kingston. This required alterations to the station at Forfar to transform from 110,000 volts to 8,000 volts for the Smiths Falls rural power district.

The Commission sold the local distribution systems in Tweed, Deseronto and Bowmanville to the municipalities, on the basis of the value of these systems as recorded in the books of the Commission. Each municipality was credited with the accumulated renewals reserves set up in respect of the properties purchased by it. These municipalities submitted by-laws to the ratepayers and entered into agreements for the supply of power from the Commission.

The villages of Bath and Westport also signed agreements for the purchase of power from the Commission and lines are being constructed to supply these municipalities.

The load requirements of the system did not increase as much as was anticipated over the previous year, but owing to a deficiency of precipitation and resulting low water on the Trent Canal system and other rivers on which the Commission's generating plants are situated, it was necessary to call on the Gatineau Power Company for the annual increment of 6,000 horsepower in September, which normally is provided under the term of the contract on October 1st of each year, and arrangements were made to obtain additional power temporarily from the Cedar Rapids Power Company for the St. Lawrence district. All demands for power for the requirements of the system were thus met and the Commission's future needs for the system are amply provided by the existing contract for purchased power.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Eastern Ontario system is $21,570,767.11, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate $4,865,154.23.

In the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was $397,484.65, and the total cost of supplying the service was $394,032.72, leaving a balance of $3,451.93, which is placed to the credit of districts in this system.

With respect to the electric utilities of the various urban municipalities of the Eastern Ontario system operating under cost contracts the actual cost of power supplied by the Commission during the year was $15,243.53 less than the total amount collected at the interim rates and this has been credited to the municipal utilities. The total revenue of the municipal electric utilities served by this system was $2,883,777.62, a decrease of $3,357.83.

The total net surplus for the year from the operation of the various municipal electric utilities was $282,598.13, after providing $167,988.00 for depreciation and other reserves and $115,336.41 for the retirement of instalment and sinking fund debentures. Five municipal utilities had small deficits upon the year's operations, aggregating $1,390.55, whereas the total combined surplus of the other electric utilities served by this system was $283,988.68.

THUNDER BAY SYSTEM

The Thunder Bay system serves that part of the Thunder Bay district lying between Lake Nipigon and the international boundary, including the cities of Fort William and Port Arthur, and the village of Nipigon. The greater portion of the developed power is utilized by grain elevators and pulp and paper mills, and due to the world-wide depression which has largely affected the power demands of these two major industries, the load on this system has fallen off considerably. However, taking account of the good financial history of this system there is every reason to believe that it will continue to operate with an excellent showing as in previous years.

The Commission has, in the Thunder Bay system, a total investment of $18,406,363.39, and accumulated reserves for renewals, contingencies, and sinking fund aggregate $2,597,316.84.

The actual cost of power supplied to this system by the Commission for the year was $44,814.76 in excess of revenue from the interim monthly billing, which sum has been charged to the municipalities operating under cost contracts. The total revenue of the municipal electric utilities in this system was $1,383,583.19. The three municipalities served by this system operated with a net surplus of $114,736.42 after providing depreciation to the extent of $38,252.24 and $21,655.10 for the retirement of debentures.

NORTHERN ONTARIO SYSTEM

This system covers all of the Province north of the French river and lake Nipissing except the territory served by the Thunder Bay system. Certain areas of the Northern Ontario system are served by separate developments, and engineering assistance and advice covering management and operation are given by the Commission to all municipalities and unorganized sections of the area when requested. The principal active sections at the present time are the Nipissing district, the Sudbury district, the Abitibi district, and the Patricia district.

NIPISSING DISTRICT

This district comprises the area adjacent to the eastern shores of lake Nipissing; the municipalities served include the city of North Bay, the villages of Callander and Powassan, and the townships of Ferris, Himsworth and Nipissing. Power is obtained from three hydro-electric developments on the South river, namely, Nipissing, Bingham Chute, and Elliott Chute. Owing to low water conditions in this district, due to lack of precipitation, arrangements were made with the Abitibi Power and Paper Company for an emergency supply of power from its development at Crystal Falls (formerly known as Smoky Falls) on the Sturgeon river and a transmission line was constructed and placed in operation between North Bay and Sturgeon Falls. For purpose of financial administration the Nipissing district of the Northern Ontario system is associated with the districts of the Eastern Ontario system.

SUDBURY DISTRICT

The active area in this district lies in and adjacent to the city of Sudbury, including the mining area known as Sudbury Basin, the source of power supply being the three developments recently purchased from The Wahnapitae Power Company. The load at Sudbury and the adjacent district, although not as large as when mining operations are normal, has continued fairly steady throughout the year, with the result that the financial operations for the district have been satisfactory.

ABITIBI DISTRICT

The active area in this district comprises the territory within transmission distance on both sides of a transmission line constructed during the year from Hunta just west of Cochrane to Copper Cliff. Power is obtained under a contract entered into by the Commission with The Ontario Power Service Corporation, Limited. This line was placed in service on October 5th and the Commission is prepared to deliver the block of power now under contract with The International Nickel Company.

PATRICIA DISTRICT

The active section in this district is the Red Lake mining area. Power is developed at Ear Falls at the foot of Lac Seul, and supplied to one of the leading gold mines in the district. The Commission is prepared to supply all power demands in the district within transmission distance of this development.

THE ANNUAL REPORT

The Table of Contents, pages xxv and xxvi, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 6 to 59, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the monthly loads on the various systems. Tables are also presented showing the amounts of power taken by the various municipalities in October during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 67 to 85. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid to this work have been of value to agricultural activities, and have assisted the Commission to extend rural transmission lines to many areas.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About one-half of the Report is devoted to statistical, financial data which are presented in two Sections, IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on pages 143 to 147, to which special reference should be made.

Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 263 to 265; and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 382 to 385.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements descriptive of the operations of the Commission in various branches of its work are suitably placed throughout the Report in order that the citizens of the Province may be kept fully informed upon the working-out of the Commission's policies.

The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases these enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report of the Commission. Real benefit would result to the "Hydro" undertaking if those who are commenting upon aspects of the Commission's work would first make sure by consulting the Commission's publications that the data upon which their comments are to be based are adequate and pertinent to the subject in hand. By such a course much misrepresentation, as well as inconvenience, would be avoided.

Other Publications by the Commission

From time to time, as considered desirable in the interests of the co-operating municipalities, the Commission has published, in addition to its Annual Report, pamphlets and special statements dealing with various matters of interest. Thus, at the close of the past year there was in course of preparation a pamphlet which has since been issued, entitled: "Rural Electrical Service in Ontario: A Statement Outlining Its Relationship to Electrical Service in Cities and Towns and Correcting Some Misunderstandings." This pamphlet deals with important facts concerning the rural work of the Commission, explains the relationship of electrical service in the rural power districts of Ontario to that given in cities and towns and clears up certain misunderstandings respecting rural electrical service and the cost of such service to consumers.

In connection with public statements made by the Commission, it is a pleasure to record that, as matters of public interest, the Press has given generously of services and space in order to convey to the citizens of Ontario information respecting their "Hydro" undertaking. For this the Commission desires to express its gratitude.

The Present Situation

In closing this introductory statement it will be profitable to refer briefly to the present economic situation and its influence upon the "Hydro" undertaking; and while one is reluctant to keep referring to the existing depression, yet its pronounced character and the extended period over which it has prevailed have, to a greater or lesser degree, affected practically all electrical supply undertakings and the "Hydro" undertaking has not escaped.

In the foregoing review the load conditions have been referred to rather more fully than usual, and under the circumstances it is a satisfaction to be able to state that, compared with many similar undertakings, the "Hydro" enterprise has maintained its load at a relatively favourable level; its revenues and the revenues of the associated municipalities have to a noteworthy degree also been maintained, and the reserves of the undertaking have continued to increase substantially. However, while the load supplied to the municipalities has been well maintained, certain large industries directly supplied by the Commission are not using all of the power contracted for; and, furthermore, there has been a suspension of growth in the load for which the Commission—conservatively basing its estimate upon past experience—had made provision. On the other hand, the Commission at the commencement of the period of depression, had practically no margin between its available supplies and the actual demands. For a year or more following, the Commission, with its provisions for power supplies, was merely building up a reasonable reserve in relation to the power actually in use. Again, a substantial part of the existing margin of capacity represents power sold under contract, for which the Commission is being compensated, and which it is under obligation to hold as a reserve, immediately available when called for.

It is recognized as an essential in electricity supply undertakings to maintain over and above the estimated maximum load, a surplus of capacity sufficient to ensure uninterrupted service in the event of damage to equipment, or temporary reduction in effective capacity due to ice difficulties, unusual variations in rainfall or other contingencies; to enable units to be taken out of service for regular maintenance work and repairs; to provide a margin for unpredictable variations in peak loads due to exceptional over-lapping of the demands of different consumers; and to provide a margin for additional demands resulting from increased industrial activities or other causes. This reserve capacity, as ordinarily maintained by large systems, ranges from 10 per cent to as high as 30 per cent or more, of the normal operating capacity.

A Broader Outlook Necessary

The whole question of provision for future demands, however, has to be dealt with by the Commission in a broad and comprehensive manner. As a basis for estimating future demands, special reliance must be placed upon past records of growth in load extending over a reasonable period which includes years of prosperity and years of decreased activity. In this connection it must be recognized that in modern communities there is a steady growth in demand for electrical service, due to growth in population and to an increase in individual consumption, which growth in demand goes on to a greater or lesser degree irrespective of the cyclical phenomena of prosperity and depression. This growth is, however, partially or entirely obscured during periods of depression by reason of a recession in the demand for power for industrial purposes.

Bearing the foregoing considerations in mind, it must also be appreciated that only large hydro-electric developments are capable of providing adequate additional supplies of power for an electrical undertaking of the magnitude of the Niagara system of the Commission. Such large developments take years to plan and construct. It is, therefore, necessary to plan several years ahead for the anticipated growth in demand. It is of the utmost importance that the general economic and industrial growth of Ontario should not be hampered by shortage of power supplies. If, after provisions have been made for increased power supply there should, in the interim, come, in the cycle of economic events, a period of depression with its lessened demands for power, it simply means that during a continuance of the depression there will be an increasing margin between the aggregate supplies of power being made available, and the actual demands. This is a quite natural phenomenon and one which need occasion no undue concern, because past experience has always shown that the power supplies made available are taken up and utilized at a rapid rate quite early in the turn of the cycle towards more normal social and economic conditions.

The Commission, with a recognition of the bountiful natural resources of the Province and with an assured faith in the ability of the citizens of Ontario to weather the present period of distress, goes forward into the coming year confident that the future will justify its course in providing for the citizens of Ontario ample supplies of power, and hopeful for an early return to more favourable economic conditions.

Respectfully submitted,

J. R. Cooke
Chairman

TORONTO, ONTARIO, March 31st, 1932.

HON. J. R. COOKE, M.L.A.,
Chairman, The Hydro-Electric Power Commission of Ontario,
Toronto, Ontario.

SIR,—I have the honour to transmit herewith the Twenty-fourth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1931.

I have the honour to be,
Sir,
Your obedient servant,

W. W. POPE
Secretary.

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TWENTY-FOURTH ANNUAL REPORT

OF THE

Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL

At the 1931 Session of the Legislative Assembly of the Province of Ontario, two Acts relating to the work of the Hydro-Electric Power Commission of Ontario were passed. These are reproduced in full in Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1931, Chapter 13.
The Guelph Railway Act, 1931, Chapter 14.

The agreements between the Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 8th day of January, 1932.

City	
Oshawa	Aug. 4, 1931

Towns	
Deseronto	Jan. 21, 1931
Southampton	Feb. 1, 1931
Walkerton	Jan. 21, 1931
Walkerton	Jan. 31, 1931
Wiarton	Jan. 26, 1931
Wiarton	Mar. 1, 1931

Villages	
Bath	July 6, 1931
Hastings	May 28, 1930
Long Branch	Dec. 31, 1930
Port Elgin	Feb. 28, 1931
Port Elgin	Mar. 1, 1931
Rosseau	Mar. 2, 1931
Tweed	Jan. 20, 1931
Westport	June 22, 1931

Townships	
Adolphustown	Jan. 12, 1931
Ameliasburg	Oct. 15, 1930
Ancaster	June 30, 1930
Athol	April 28, 1931
Bathurst	Oct. 20, 1931
Bexley	Jan. 12, 1931
Bexley	Aug. 17, 1931
Brunel	Feb. 9, 1931
Burgess North	Sept. 14, 1931
Caledonia	June 15, 1931
Camden East	Nov. 11, 1930
Camden East	Nov. 11, 1930
Canborough	Oct. 20, 1931
Chaffey	Mar. 17, 1931
Clarence	July 6, 1931
Cumberland	July 6, 1931
East Garafraxa	May 30, 1931
Elmsley North	May 5, 1931
Elmsley South	May 1, 1931

TOWNSHIPS—Continued

Erin	Aug. 25, 1930
Erin	May 26, 1931
Ernestown	June 29, 1931
Euphrasia	July 10, 1931
Franklin	Mar. 3, 1931
Harvey	Mar. 7, 1931
Hawkesbury East	Sept. 2, 1931
Hillier	Aug. 18, 1930
Himsworth South	May 30, 1931
Hinchinbrooke	July 27, 1931
Hungerford	Oct. 30, 1930
Huntley	Nov. 3, 1930
Kingston	Sept. 8, 1930
Kitley	Sept. 10, 1931
Laxton, Digby & Longford	Jan. 12, 1931
Lobo	Sept. 20, 1930
Loughboro	Nov. 3, 1930
Macaulay	May 29, 1931
Manvers	Nov. 3, 1930
McLean	Sept. 18, 1931
Mountain	Nov. 4, 1930
Oliver	Oct. 9, 1931
Ops	Oct. 18, 1930
Oxford-on-Rideau	July 27, 1931
Paipoonge	Oct. 10, 1931
Pakenham	Dec. 15, 1930
Ramsay	Oct. 9, 1931
Rawdon	Nov. 14, 1930
Saugeen	July 15, 1931
Seneca	Aug. 17, 1931
Sheffield	Nov. 3, 1930
Sherbourne	Sept. 26, 1931
Shuniah	Sept. 21, 1931
Somerville	Jan. 12, 1931
Somerville	Sept. 5, 1931
South Fredericksburg	Nov. 3, 1930
South Gower	Jan. 12, 1931
South Monaghan	Mar. 2, 1931
Sydenham	Aug. 4, 1931
Thorah	July 11, 1931
Tilbury North	Sept. 15, 1930
Tyendinaga	Aug. 5, 1931
Watt	Oct. 6, 1930
West Garafraxa	Aug. 22, 1931
West Luther	Oct. 27, 1930
Widdifield	July 18, 1931
Wolford	Sept. 5, 1930

CORPORATIONS

Canadian Aggregates, Limited	July 18, 1930
Canadian Gypsum Company, Limited	July 11, 1931
Canadian Industrial Alcohol Company, Limited	Nov. 1, 1930
Canadian Pacific Railway Company (Contract "A")	Aug. 1, 1931
Canadian Pacific Railway Company (Contract "B")	Aug. 1, 1931
Gomoll Brick & Tile Works	Mar. 21, 1931
Hecker-H-O Company of Canada, Limited	Aug. 17, 1930
His Majesty The King, represented by the Minister of National Defence (Contract "A")	Sept. 1, 1930
His Majesty The King, represented by the Minister of National Defence (Contract "B")	Sept. 1, 1930
His Majesty The King, represented by the Minister of National Defence	April 1, 1931
International Nickel Company of Canada, Limited	May 1, 1931
Morrow & Beatty, Limited	Mar. 2, 1931
Ontario Rock Company, Limited	April 1, 1931
Ontario Supply and Transport Company, Limited	Mar. 1, 1931
Republic Carbon Company, Incorporated	July 15, 1931

Right-of-Way

Rural Power Lines

A very extensive programme of construction work on rural power transmission lines was carried out during the year, wood pole lines having been constructed in the following rural power districts: Acton, Alexandria, Alvinston, Amherstburg, Aylmer, Ayr, Baden, Bala, Barrie, Barton, Beamsville, Beaumaris, Beaverton, Belle River, Belleville, Blenheim, Bond Lake, Bothwell, Bowmanville, Bradford, Brampton, Brant, Brigden, Brighton, Brockville, Burford, Chatham, Chesterville, Clinton, Cobourg, Colborne, Cookstown, Creemore, Delaware, Dorchester, Dresden, Dundas, Dutton, Elmira, Elmvale, Elora, Essex, Eugenia, Exeter, Fenelon Falls, Forest, Galt, Georgetown, Georgina, Goderich, Grantham, Guelph, Haldimand, Harriston, Harrow, Hawkestone, Huntsville, Ingersoll, Innisfil, Jordan, Kemptville, Keswick, Kingston, Lakefield, Listowel, London, Lynden, Mariposa, Markdale, Markham, Martintown, Maxville, Medonte, Merlin, Midland, Millbrook, Milton, Milverton, Mitchell, Napanee, Nepean, Newcastle, Newmarket, Niagara, North

Bay, Norwich, Norwood, Omemee, Orangeville, Oshawa, Owen Sound, Palmerston, Perth, Peterborough, Petrolia, Port Hope, Port Perry, Prescott, Preston, Ridgetown, Ripley, St. Jacobs, St. Marys, St. Thomas, Saltfleet, Sandwich, Sarnia, Sarnia Beach, Seaforth, Shelburne, Simcoe, Smiths Falls, Sparrow Lake, Stratford, Strathroy, Streetsville, Tara, Tavistock, Thamesville, Tilbury, Tillsonburg, Trenton, Utterson, Uxbridge, Wallaceburg, Walsingham, Walton, Waterdown, Waterford, Welland, Wellington, Williamsburg, Woodbridge, Woodslee, Woodstock, Wroxeter.

Lines of this class are, as far as possible, located on public roads, but in many cases, owing to the presence of shade trees or to other physical conditions, it has been found advisable to construct portions of such lines on private property. In such cases the necessary rights have been secured from the land owners by the Right-of-Way department. Claims for damages to crops and fences have been settled and tree-trimming rights obtained. In many cases the consent of the Department of Public Highways or the County, or other authority having control of the roads affected, was secured. The widening or realignment of various highways by provincial or municipal authorities has in many instances necessitated a change of pole locations. In this connection negotiations between the Commission and the different corporations concerned have been carried out in nearly every case without friction.

Low-Tension Lines

The construction of low-tension lines, as in the case of rural power lines, required the securing of a large number of tree-trimming rights covering shade trees on lands adjacent to the roadways. Also in many cases it was considered advisable to locate poles and anchors on private properties, for the doing of which rights were secured.

The following is a list of low-tension lines on which construction work was carried on during the year:

Healey Falls to Norwood.
Todmorden Junction to Brinlock Corners.
Oshawa to Whitby.
Norwood Station to Havelock.
Wellington to Picton.
Warkworth Transformer Station to Welcome Junction.
Newcombe Junction to Welcome Junction.
Oshawa to Port Hope.
Bowmanville to Oshawa.
Whitby Junction to Whitby Municipal Station.
Seymour to Rawdon Townline.
Sidney to Harold.
Sterling to Harold.
Belleville Switching Station to Belleville Distributing Station.
Cataraqui to Napanee Transformer Station.
Picton Junction to Brighton.
Madawaska to Portage Du Fort.
Galetta Distributing Station to Chats Falls.
Chesley to Paisley.
Hanover to Walkerton.
Teeswater to Wingham.
Hanover Switching Station to Walkerton Junction.
Durham Russell Company to Mount Forest Junction.
Mount Forest to Harriston.
Dundalk Junction to Dundalk Distributing Station.
Durham to Mount Forest.
Meaford Junction to Collingwood Distributing Station.
Kilsyth Junction to Owen Sound Distributing Station.
Walkerton Junction to Walkerton Quarries Junction.
Kinloss to Holyrood.
Holyrood Junction to Kincardine Distributing Station.
Kinloss Junction to Kincardine.
Walkerton Quarries Junction to Teeswater Junction.
Waubaushene to South Falls.
Trethewey Falls to South Falls.
Ragged Rapids to Big Chute.
Ragged Rapids to Bala.
Kitchener to Hanover.
Bala Distributing Station to Butterfly Junction.
Butterfly Junction to Port Carling.
Butterfly Junction to Mactier.
Southampton Generating Station to Southampton Junction.
Hepworth to Wiarton.
Derby Mills to Hepworth.
Southampton Junction to Port Elgin.

Low-Tension Lines—Continued

High Falls Generating Station to Balderson Distributing Station.
Forfar to Westport.
Smith Falls to Merrickville.
Carleton Place Junction to Carleton Place Distributing Station.
Cornwall Transformer Station to Winchester Junction.
Cornwall Transformer Station to Grants Corners.
Cornwall Transformer Station to Glengarry P. & P. Company Junction.
Winchester to Chesterville.
Chesterville to Finch.
Williamsburg Distributing Station to Winchester Distributing Station.
Lyn Distributing Station to Eugene Phillips Company.
Lyn to Athens.
Cornwall Station to Winchester Junction.
Winchester Junction to Prescott Station.
Winchester Junction to Cardinal Distributing Station.
Lower Lakes Terminal Junction to Prescott Distributing Station.
Utterson Distributing Station to Windermere.
Windermere to Rosseau.
Bath Feeder Line.
Dundas to Caledonia.
Guelph to Preston.
Preston Transformer Station to Preston Municipal Station.
Preston High Tension Station to Hespeler Junction.
Kitchener Transformer Station to Waterloo.
Stratford to Sebringville.
Woodstock Transformer Station to London Transformer Station.
Woodstock Transformer Station to Dufferin Construction Company.
Woodstock Transformer Station to Norwich Junction.
St. Thomas to Sarnia.
Brant to Brantford.
Essex Transformer Station to Maidstone.
Essex Transformer Station to Malden Junction.
Essex Transformer Station to Canada Salt Company Junction.
York Transformer Station to Weston Municipal Station.
St. Clair Station to Sarnia Junction.
Wiltshire to Weston.
Allenburg Junction to Dundas Transformer Station.
Grimsby to Beamsville.
Chippawa Junction to Niagara Waterworks.
Lythmore to DeCewsville.
Caledonia to Hagersville.
Hagersville to Jarvis.
York Mills Distributing Station to Newmarket Distributing Station.
York Mills to Steeles' Corner.
Keswick Distributing Station to Sutton Distributing Station.
Guelph to Fergus.
Fergus Junction to Elora Distributing Station.
Seaforth to Walton.
Sebringville to Milverton.
West Lorne to Rodney.
Burford Distributing Station to Can. Aggregates Distributing Station.
Brant Sand & Gravel Junction to L. E. & N. Railway Junction, Brantford.
Streetsville Junction to Milton Municipal Station.
Ridgetown Junction to Rondeau Junction.
Bothwell Junction to Wallaceburg Junction.
Wallaceburg Junction to Dominion Sugar Company Junction.
Dresden Junction to Oil Springs Junction.
Fletcher Junction to Merlin Distributing Station.
Maidstone to Essex Junction.
Harrow Distributing Station to Kingsville Distributing Station.
Amherstburg Junction to Harrow Distributing Station.
Leamington Junction to Kingsville Distributing Station.
Cottam Junction to Leamington.
Weston Junction to Albion Junction.
Weston Junction to Humber Junction.
Albion Park Junction to Woodbridge Distributing Station.
Forest Junction to Petrolia Distributing Station.
Sarnia Junction to Perth Distributing Station.
Sarnia Junction to Forest Junction.
Beaver Board Junction to Ontario Paper Junction.
Nipigon Generating Station to Port Arthur High Tension Station.
Sprucewood to Dorian.
William Street Junction to Great Lakes Power & Paper Company.
Arnprior to Galetta.
Galetta to Chats Falls.
Waubaushene to Midland.
Coldwater Junction to Elmvale Junction.
Elmvale to Fergusonvale.
Carlington to Richmond.
Kirkfield Junction to Beaverton.
Callendar to North Bay.
North Bay to Sturgeon Falls.
Smoky Falls to North Bay.
Bingham Chute Junction to Callendar Distributing Station.

Substation Sites

Sites were purchased during the year for substations in the following places: Belleville, Berkeley, Comet, Forfar, Goderich, Hepworth, Kingston, Leamington, London, Paisley, Port Elgin, Pottageville, Richmond Hill, Sarnia, Waterloo, Willowdale.

Sites for Operators' Residences

Lands on which to erect dwellings for operators have been purchased at Calder, La Forest and Timmins.

Flooding Rights

The balance of the outstanding flooding rights in connection with the raising of the waters of lake Wanapitei have been secured and incidental damage claims arranged.

Hydro 220,000-Volt Lines

The remainder of the tower rights on the second circuit, unsettled in 1930, have been arranged and at least ninety per cent. of the required rights on the third and fourth circuits have been secured. The acquisition of this right-of-way was in many cases difficult, and involved prolonged negotiations. Before the lines could be constructed, it was found necessary to do a large amount of clearing which was nearly all done by farmers over whose lands the lines pass.

A few cases in which settlements could not be secured by negotiation were referred by the owners to the official valuator appointed under the provisions of the 1931 amendment to The Power Commission Act, and settlements were finally reached in this way.

General

The water power in the Township of Mattawan known as Les Erables rapids was purchased from the Klock estate during the year, as was also the power plant of the Kirkfield Portland Cement Company on the Gull river in the Georgian Bay system.

Several parcels of land no longer required for Commission purposes have been disposed of. Leases have been secured for a number of offices for electrical inspection work and for rural power district purposes. Negotiations have been completed with the Dominion Government for rights to carry power lines over a number of Indian Reserves. Several claims for damages incidental to the operation of power lines have been satisfactorily adjusted.

SECTION II

OPERATION OF THE SYSTEMS

The loads of the various systems during the past year show both increases and decreases. Due to this fact it is difficult to make any brief statement summarizing load conditions in general, and for the same reason it would be quite easy to draw incorrect conclusions from individual figures which might not be representative of general conditions.

In this section of the Report are given load graphs for the various systems, showing the demand for power from month to month during the year, and extending back over a period of years according to the age of the system or the length of time for which proper meter records have been available. By reference to these load graphs a comprehensive view of the loads and their trends on the various systems may be obtained.

Subject to such minor exceptions as may be observed from an inspection of the load graphs, the general statement may be made that the Georgian Bay system showed an increase of about six per cent, the Eastern Ontario and Northern Ontario systems remained practically stationary, and the Niagara and Thunder Bay systems showed decreases.

On the Thunder Bay system the decrease amounted to seven per cent on the peak load for the year, and to sixteen per cent on the total kilowatt-hours generated. Prevailing business conditions, and the resultant complete or partial closing of large pulp and paper mills, accounted for the decrease on this system. It should be understood that the figures mentioned refer to the power actually supplied. For the month of October, 1931 the revenue load, that is the power sold and paid for according to contract, exceeded the actual power supplied by over 8,000 h.p.

On the Niagara system the total load of the various municipalities remained about the same as during the previous year. If a small area in the neighbourhood of the Niagara river is omitted, the records show that the remaining part of the Province comprised in the Niagara system, extending from Toronto to Windsor, had an actual increase of 6/10 of one per cent on the peak load, and a decrease in the average load during the whole year of only 4/10 of one per cent. The variation was so slight that the load of the municipalities may be considered as remaining practically the same as during the previous year.

On the Niagara system there are a number of large industrial plants in the vicinity of the Niagara river and Welland canal, which are supplied directly by the Commission instead of through municipal commissions. These plants were particularly affected by the business depression and there was a marked decrease in their load. As a result the combined municipal and industrial load shows a decrease, amounting to 593,000,000 kilowatt-hours, nearly seventeen per cent, and the maximum load decreased 68,000 h.p. or 7½ per cent. Nearly all of the decrease can be attributed to the decline in the load of the industrial plants mentioned. As most of these industries take power under contracts requiring minimum payments as long as the power is held available for them by the Commission, it will be appreciated that the revenue load did not decline to the extent indicated by the graph for the actual load. For example, the power paid for by these industries in October exceeded their actual peak loads by over 83,000 h.p. This situation is well shown on a supplementary graph which this year is given for the Niagara system. (See page 11.)

Reference to the load graph of the Niagara system will give a clear idea of the load and its general trend. The graph includes the load of the large industrial consumers supplied directly by the Commission, as well as the load of the various municipalities. The importance of this industrial load and its effect on the load curve during the present business depression was explained in the preceding paragraph. The load graph shows a steady increase, year after year, up to 1928, a year of great industrial activity and general prosperity. Industrial production in Canada according to statistics published by the Dominion Government, reached its maximum in the second month of 1929, declining sharply in the third month and continuing to drop steadily throughout 1929, 1930 and 1931. This general decline in industrial production was not immediately reflected in the demand for power on the Niagara system which continued to show large increases up to the end of 1929. Taking 1929 as the beginning of the industrial depression, and averaging the loads of the fiscal years 1929, 1930 and 1931, it will be found that the load increases of 1929 more than offset the decreases of 1931, and that the demand for power still exceeds that of 1928, the year before the depression began. The effect of the business depression on the load, averaged over the three-year period, has been only to suspend the normal rate of increase.

While the business depression has had an adverse effect on the loads of all systems, checking growth where it did not actually cause a decrease, it is interesting to note that, aside from a small territory in the neighbourhood of the Niagara river and in the neighbourhood of Port Arthur, both of which have already been discussed, the Commission's load throughout the Province shows a decrease of less than one-third of one per cent. (The Dominion Power & Transmission system is not included for either 1931 or 1930, as complete figures for comparative purposes were lacking in 1930.) Considering the unquestionable severity of the business depression, this insignificant decrease in the total use of power for domestic, commercial and manufacturing purposes, exclusive of the territories mentioned, is surprisingly small.

If the load is analyzed in relation to revenue, consideration should be given to the minimum payments required by existing power contracts. At the end of the fiscal year, the revenue load, that is the power being sold and paid for, exceeded the actual load by over 90,000 h.p.

It has been shown that the Commission's load throughout the Province, exclusive of a few large industries, has held its own without any noticeable

TOTAL POWER GENERATED AND HYDRO-ELECTRIC GENERATING PLANTS

Generating Plants	Rated electrical horsepower of generators	Normal plant capacity Oct. 31, 1931 horsepower	Peak load during fiscal year 1930-1931 horsepower	Total output during fiscal year 1930-1931 kilowatt-hours
Niagara system				
Queenston-Chippawa—Niagara river	533,000	522,000	540,214	2,252,137,000
"Ontario Power"—Niagara river	161,000	183,000	169,571	231,787,000
"Toronto Power"—Niagara river	110,000	147,000	145,845	226,255,000
Chats Falls—Ottawa river	26,700	24,000	21,448	1,402,500
Dominion Power and Trans. system*				
Decew Falls—Welland canal	56,400	50,000	48,800	130,690,300
Steam plant—Hamilton	26,800	24,000	24,933	516,600
Georgian Bay system				
South Falls—South Muskoka river	5,100	5,350	5,689	22,877,520
Hanna Chute—South Muskoka river	1,550	1,600	1,743	6,187,200
Trethewey Falls—South Muskoka river	2,300	2,200	2,145	5,990,400
Bala No. 1 and No. 2—Muskoka river	680	560	558	1,202,520
Big Chute—Severn river	4,610	5,625	5,871	15,570,240
Wasdells Falls—Severn river	860	1,100	965	2,821,820
Eugenia Falls—Beaver river	6,440	7,300	7,493	6,374,800
Hanover—Saugeen river	350	400	422	46,215
Walkerton—Saugeen river	375	500	523	1,297,800
Southampton—Saugeen river	415	370	368	1,439,700
Sauble Falls—Saugeen river	....	100	120	100,900
Eastern Ontario System				
Sidney-Dam No. 2—Trent river	4,020	4,020	4,692	12,700,950
Frankford-Dam No. 5—Trent river	3,480	3,480	3,539	8,613,500
Meyersburg-Dam No. 8—Trent river	6,600	6,430	7,721	21,419,000
Hague's Reach-Dam No. 9—Trent river	4,800	4,500	5,094	13,551,230
Ranney Falls-Dam No. 10—Trent river	9,650	9,650	10,456	28,817,640
Seymour-Dam No. 11—Trent river	4,020	4,020	4,357	12,329,920
Heely Falls-Dam No. 14—Trent river	12,060	12,060	15,952	34,822,800
Auburn-Dam No. 18—Otonabee river	2,010	2,010	2,815	7,797,340
Fenelon Falls-Dam No. 30—Sturgeon river	1,070	860	1,019	1,823,300
High Falls—Mississippi river	2,810	2,440	3,016	8,162,520
Carleton Place—Mississippi river	530	430	400	292,512
Calabogie—Madawaska river	5,400	4,300	2,413	5,726,578
Galetta—Mississippi river	1,070	860	1,045	3,012,275
Thunder Bay system				
Cameron Falls—Nipigon river	68,400	75,000	64,990	147,678,000
Alexander—Nipigon river	51,300	54,000	30,100	102,624,000
Northern Ontario system				
Nipissing district				
Nipissing—South river	2,750	2,350	2,426	5,812,160
Bingham Chute—South river	1,200	1,200	1,327	2,430,640
Elliott Chute—South river	1,930	1,750	1,862	2,584,400
Sudbury district				
Coniston—Wanapitei river	5,100	5,500	4,424	16,439,952
McVittie—Wanapitei river	2,680	2,550	2,815	13,461,624
Stinson—Wanapitei river	5,360	6,150	5,496	17,822,184
Patricia district				
Ear Falls—English river	5,400	5,000	1,912	8,082,800
Total generated	1,138,220	1,183,665	1,154,579	3,382,702,840

*In process of incorporation with the Niagara system.

NOTE.—The first column of figures in the above table shows the electrical horsepower equivalent of the rating put on the generators by the manufacturers. These ratings do not take into consideration water conditions and other factors which affect the over-all capacity of the generating plant. The plant capacities which appear in the second column of figures are nominal operating ratings and cannot be used in determining the power continuously available in the case of individual plants or any group of plants. Plant ratings, regardless of installed capacity, depend upon a number of factors, such as net head, water supply, machine outages, changes in operating schedule, and load factor, all of which factors may vary from time to time. It may be necessary to change these ratings somewhat from year to year due to the above causes, and also due to plant additions or alterations.

PURCHASED—ALL SYSTEMS

POWER PURCHASED

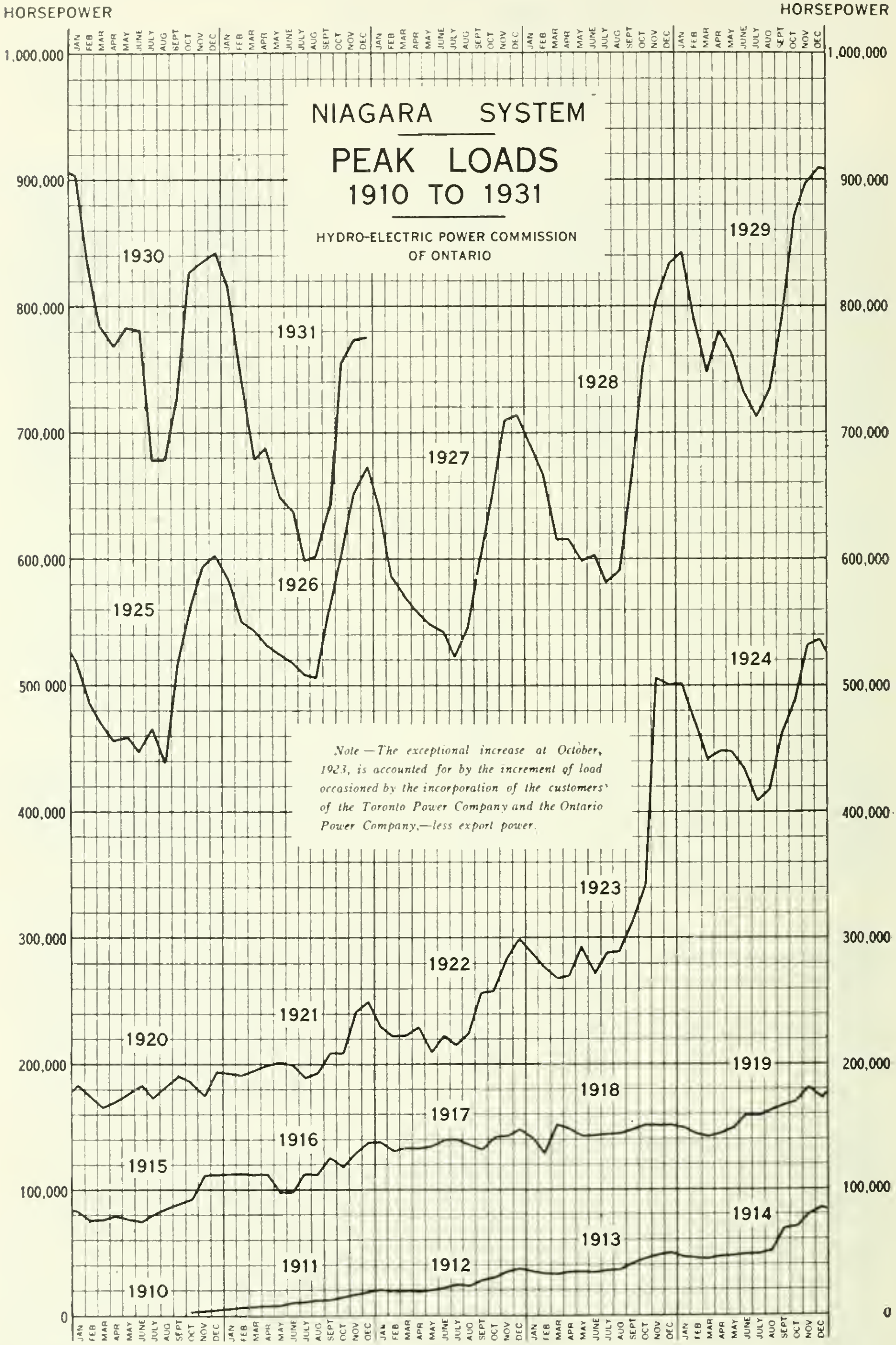
Power source	Contract amount horsepower	Total purchased kilowatt-hours
Canadian Niagara Power Co.—25 cycle	20,000	43,248,900
Gatineau Power Co.—25 cycle	260,000	875,385,700
Chats Falls Power Co	24,000	1,402,500
Canadian Niagara Power Co.—66 cycle	10,000	60,136,000
Campbellford Water & Light Commission*		3,609,000
Peterborough Hydraulic Power Co.*		5,860
Cedars Rapids Power Co	7,500	27,497,000
M. F. Beach Estate	500	936,500
Rideau Power Co	487	2,232,250
Ottawa & Hull Power & Mfg. Co	20,000	66,961,800
Gatineau Power Co.—60 cycle	24,000	72,171,600
Orillia Water, Light & Power Commission*		96,390
Abitibi Pulp & Paper Co.—Sturgeon Falls		1,101,824
Ontario Power Service Corporation	25,000	26,650
Total purchased	391,487	1,154,811,974
Total available capacity, generated and purchased, 1931	1,575,171	
“ “ “ “ “ “ 1930	1,365,781	
Increase	209,390	
Total kilowatt-hours, generated and purchased, 1931		4,537,514,814
“ “ “ “ “ “ 1930		5,096,347,240
Decrease		558,832,426

*Reciprocal arrangement for surplus power.

Note.—In the 1931 tabulations for power generated and purchased the total available capacity, and also the total kilowatt-hours generated and purchased, include the figures for the D. P. & T. System from the beginning of the fiscal year, November 1, 1930. These tabulations in the 1930 Annual Report did not include the D. P. & T. System, as was noted, due to the fact that this system was taken over by the Commission during that fiscal year and figures for the entire year were not available.

decrease, and it would seem to be highly probable that, but for an actual curtailment of load on the part of many smaller industries, there would have been a substantial increase. This may be deduced from the fact that curtailment on the part of many industries is known to have taken place, and that there must have been a material increase in other load, perhaps due in large part to new uses of electricity, in order to offset this curtailment. If this view is justifiable, there is a very large amount of industrial equipment, already installed but now idle, which is ready to absorb power as soon as there is any possibility of doing so. The owners of this equipment have already provided the capital outlay connected therewith and would be put to relatively small expense in order to make use of it. In order to provide for the materialization of this load on short notice, the Commission must provide a substantial surplus of generating capacity over present requirements under conditions of curtailed use.

The accompanying table shows the total power generated and purchased for all systems. The peak load and total output is shown for each generating station. These figures are of some value in determining the load carried by the individual plants, but, due to the diversity in the times at which the peaks



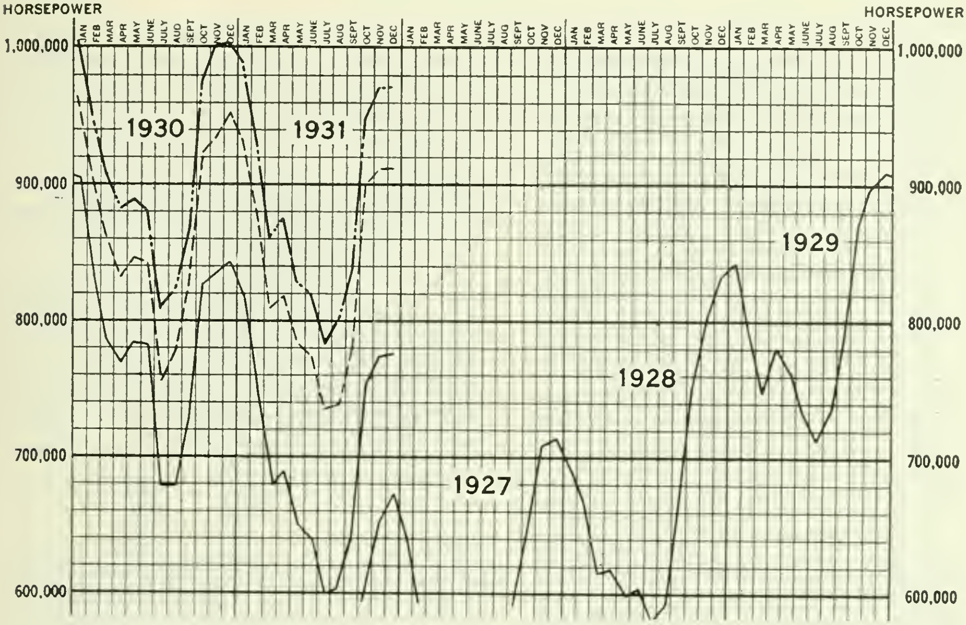
NIAGARA SYSTEM

PEAK LOADS

1910 TO 1931

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Note.—The exceptional increase at October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers' of the Toronto Power Company and the Ontario Power Company,—less export power.



SUPPLEMENTARY DIAGRAM—NIAGARA SYSTEM PEAK LOADS

LEGEND

Canadian coincident peak loads delivered to system (not including export) as per graph on opposite page.. ————————

Sum of:—Canadian coincident peak loads; contractual export; and power paid for but not taken by companies supplied direct by Commission............ — — — — — — —

Sum of:—Canadian coincident peak loads; contractual export; and total contractual obligations to companies supplied by the Commission in excess of power actually taken by them.. —— — — ——— —

NOTE: In 1930 and 1931, certain companies supplied directly by the Commission did not avail themselves of the full amounts of power provided for in their contracts with the Commission, and consequently the "Niagara System Peak Loads" curve for these years falls substantially below the total of contractual obligations of the Commission to supply power in the Niagara system in these years. Also, the "Peak Load" diagram, as noted thereon, excludes contractual obligations for export of power. In order to indicate as closely as possible the total demands—including these contractual obligations—for which power had to be provided, the above diagram incorporates two additional curves.

The quantities here added are accurate in themselves. The actual peak loads, however, that would have resulted had the full contractual rights been exercised, might have been slightly greater or less than the quantities shown in the diagram, because such peak loads would be increased by line losses and reduced by possible diversity—factors which cannot be evaluated exactly.

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occurred, the sum of these peaks does not correspond with the various system peak loads. Special care must be exercised to ensure that the various data respecting capacities, loads, etc., are not employed in any manner at variance with the explanatory and cautionary comments respectively applicable thereto.

In the areas served by the Georgian Bay and Eastern Ontario systems, and in the Nipissing district, the dry summer season, the third such season in succession, seriously reduced the stream flow available for the generating plants. The combined effect of the sustained demand for power, and the reduction in stream flow, would have created serious power shortages on all these systems if other reserves had not been available. On the Georgian Bay system a shortage was averted by transferring power from the Niagara system, and on the Eastern Ontario system and Nipissing district by purchasing power.

The generating capacity of the Niagara system was increased on October 25, 1931, when two generators in the Chats Falls plant went into operation. Their output was restricted due to construction work, and, as only a few days of the fiscal year remained, the effect on the load situation for the year was slight.

At the Alexander plant on the Thunder Bay system, two more generators were put into service, completing the power house and adding 36,000 horsepower to the generating capacity.

Three other notable extensions of the Commission's systems are: (1) the completion of the third 220,000-volt line from Leaside station to the Ottawa river, connecting with the new plant at Chats falls; (2) the construction of a new 22,000-volt line connecting the Nipissing district with the Abitibi Power and Paper Company's generating station at Crystal falls, and (3) the placing in service of 189 miles of 110,000-volt transmission line from Hunta to Copper Cliff, in the Sudbury district, to supply the International Nickel Company sub-station at Copper Cliff with 25-cycle power from the generating plants of the Ontario Power Service Corporation.

At Niagara Falls advantage was taken of the reduction in the load to do extensive maintenance work under conditions more favorable than would have been the case in previous years when load conditions demanded that equipment be kept available for service. Similar remarks apply to the Cameron Falls plant on the Thunder Bay system, but on that system increased generating capacity was combined with a reduction in load to release equipment that it had been impossible to take out of service for some years. On the other systems, where there were little or no reductions in load, no special opportunity of this kind existed, but all plants of the Commission have been maintained in efficient operating condition; details of the work are given in the following sections of this Report.

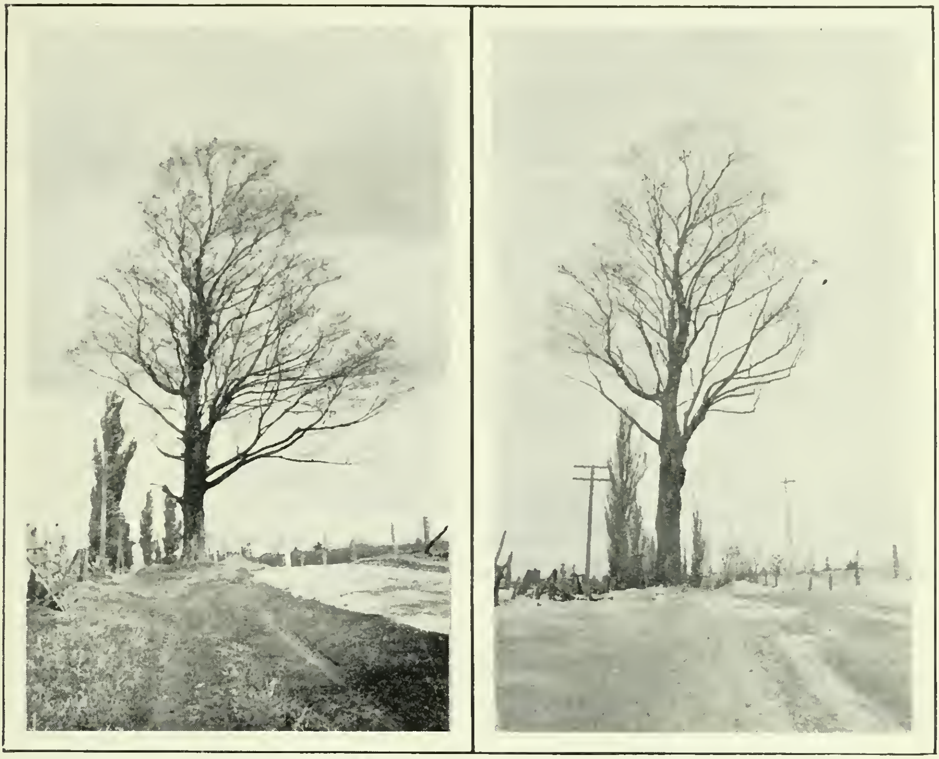
Forestry Division

This new branch of the Operating department has been active throughout the year in various parts of the Province. Its staff has been employed continuously in the Niagara system, working principally in the Niagara Falls, Essex, Kent, Dundas, Woodstock, Stratford and London districts. During part of the year work was carried on in the Eugenia and Severn districts, and some work has been done in the Central Ontario and St. Lawrence districts.

The services of the forestry staff have been utilized also by the Distribution department for pruning trees on newly constructed rural lines along some of the main highways. The Alliston Public Utilities Commission and the Comber Hydro-Electric System each employed a forestry squad to prune the trees within their municipal limits for line clearance. The services of the specially-trained men included in this division are upon request available to the Hydro commission of any municipality.

During the fiscal year 38,669 trees have been pruned at an average cost of slightly less than $1.80 per tree, which figure includes special training expense, all overhead, travelling and incidental expenses, as well as insurance and depreciation of tool equipment.

This compares favorably with the previous cost to the Commission of $2.53 per tree for work done by outside firms under contract, and with the costs of a large power company in the United States reported as trimming 113,000 trees at an average cost of $2.20.



OPERATING DEPARTMENT—FORESTRY DIVISION
On left tree improperly pruned. On right, after pruning by Forestry Division to accommodate Hydro line.

While the expense of this work is heavy, there has been an increasing demand from the public generally for the preservation of the life and beauty of the trees along the highways on which many of the Commission's power lines are located. Expressions of approval from various official and local sources indicate that the work of the Forestry division has been carried out in a manner satisfactory to the public generally. At the same time the necessary protection to the Commission's power lines and service has been given.

Radio Communication

The Commission's short-wave experimental radio stations at Toronto, Cameron Falls and Ear Falls have been in service all year.

Communication between the Toronto and Cameron Falls stations has been relatively satisfactory, there being but few occasions during each month when atmospheric conditions rendered communication impossible. Considerable trouble has been experienced at Toronto from electrical interference from an outside source, but early in the year a change was made in the time of day at which these stations were operated which to a large extent alleviated this trouble.

During the year there were no special changes in equipment at Toronto or at Cameron Falls with the exception of the addition of a portable standard frequency oscillator unit which, in conjunction with monitoring units already a part of the station equipment, is being used to maintain the stations on licensed frequencies.

At Cameron Falls a new radio cabin has been constructed, the radio equipment being transferred to this cabin early in the year. The cabin is situated on a small knoll overlooking the camp, and this new location has enabled the radio station to give improved service.

The short-wave experimental radio station installed last year at Ear Falls generating station, Patricia district, has continued in operation throughout the year with satisfactory results, and no changes in equipment or special maintenance work were necessary.

Contact between this station and the similar station at Toronto has been fairly continuous throughout the year although there were a few occasions on which due to adverse atmospheric conditions communication could not be maintained.

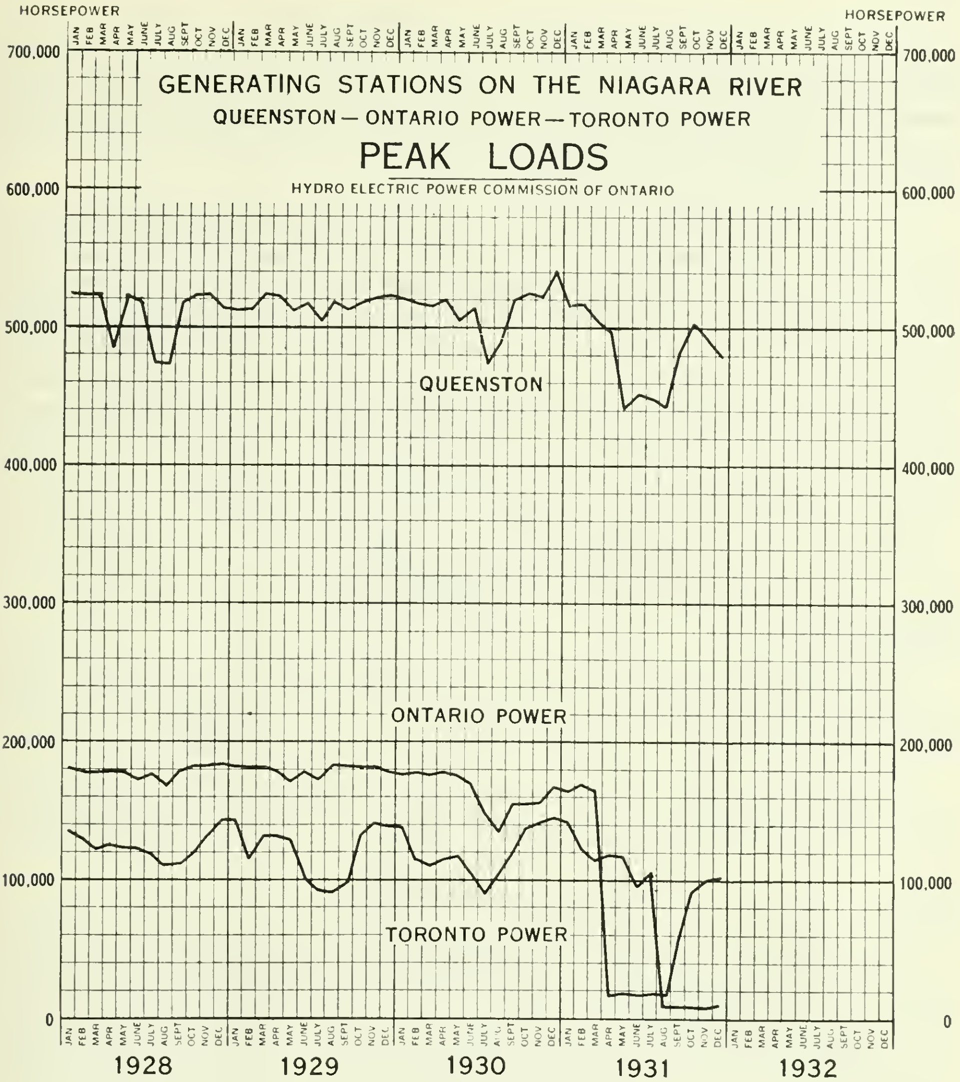
Tests, looking toward communication between the Cameron Falls station and the Ear Falls station have been carried out during the year and are still in progress. Upon completion of these tests it is expected that reliable communication will be obtained between these stations.

NIAGARA SYSTEM

Queenston Generating Station

The operation of this plant was extremely satisfactory throughout the year. There was only one failure of equipment: on May 5, 1931, the thrust bearing on No. 9 unit burned out. A spare bearing was installed, and the unit returned to service on May 31.

The following machines were removed from service during the year for inspection, repair and overhaul: December 10 to December 30, 1930, the two service units supplying power for station service were shut down, the stator coils cleaned and painted, the field insulation repaired and painted, and the turbines overhauled and guide bearings repaired. March 24 to March 31, No. 7 unit: stator coils and field coils cleaned and painted, guide bearings repaired, new indicating rod installed and the main valve seat on the Johnson valve repaired. April 7 to April 30, No. 10 unit: turbine guide bearing realigned and governor equipment adjusted to improve speed regulation. April 9 to April 30, No. 9 unit: stator coils and field coils cleaned and painted, guide bearings repaired, turbine runner welded, and Johnson valve seat and control valves repaired. April 22 to April 30, No. 8 unit: stator coils and field coils cleaned and painted, guide bearings repaired, turbine runner welded, and Johnson valve seats repaired. May 4 to May 31, No. 6 unit: stator coils and field coils cleaned and painted, guide bearing repaired, turbine runner welded, and main seat on Johnson valve repaired. May 25 to August 3, No. 3 unit: unit was completely dismantled to permit rebuilding concrete cone in draft tube, stator coils and field coils cleaned and painted, turbine runner rebuilt by welding, turbine seal rings replaced, turbine journal sleeve trued up, guide bearing repaired, control valves relined, Johnson valve seats repaired, and complete unit realigned. September 1, No. 4



unit: this unit was taken out of service for repairs to turbine runner and seal rings, and for re-insulation of the generator field poles. Work was not quite completed at end of fiscal year.

The usual annual inspection of all electrical, hydraulic and mechanical equipment was carried out and repairs made where necessary. Due to the disintegration of rock on the cliff above the power house it was necessary to scale a large portion of the cliff and build retaining walls.

Ontario Power Plant

No serious troubles were experienced in the operation of the Commission's Ontario Power plant during the year. One coil failed in No. 1 unit while on load on October 10. This did not necessitate the replacement of any coils.

No. 1, 2, and 3 main conduits were unwatered and inspected during the year, and found in good condition. This was the first inspection of No. 3 wood stave conduit since its installation in 1918. It was possible to unwater and make this inspection of No. 3 at this time, due to the conduit having been covered with a concrete envelope last year. While No. 3 conduit was unwatered, No. 3 surge tank was cleaned and painted inside and out.

The following machines were out of service during the year for inspection, repairs and overhaul: April 20 to July 14, No. 11 unit: generator stator and field coils cleaned and painted, new runners installed, and seal rings, cheek plates and gates repaired or replaced. May 11 to August 8, No. 4 unit: generator stator and field coils cleaned and painted, new runners installed and seal rings, cheek plates and gates repaired or replaced. June 24 to September 23, No. 9 unit: generator stator and field coils cleaned and painted, new runners installed, and the cheek plates, seal rings and gates repaired or replaced. August 14 to October 28, No. 6 unit: generator stator and field coils cleaned and painted, new runners installed and the seal rings, cheek plates and gates replaced or repaired. September 18, No. 10 unit: generator was taken out of service to have stator and field coils cleaned and painted, new runners installed and the seal rings, cheek plates and gates repaired or replaced. This work was still in progress at end of fiscal year.

The section of Queen Victoria park through which No. 3 conduit runs was graded and seeded. This grading and seeding was in connection with the concreting and back filling of No. 3 conduit carried out during 1930.

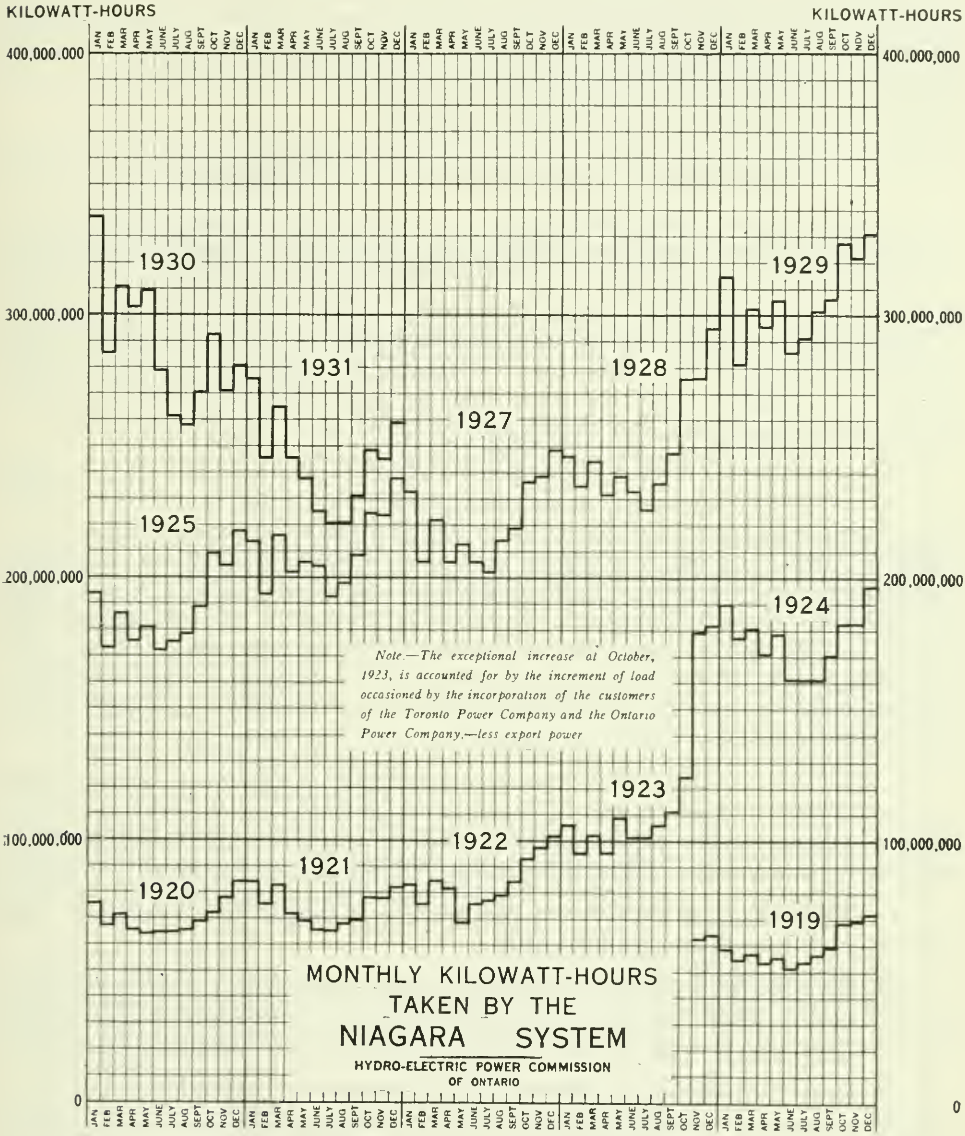
During the year all equipment was regularly inspected and repairs made where necessary to keep the plant up to the high standard set by the Commission.

Toronto Power Plant

This plant was operated in the usual way during the year, there being no failures of equipment in service. The following machines were out of service during the year for inspection, repair and overhaul: April 6 to May 20, 1931, No. 11 unit: bronze sleeve installed on the cone shaft of the upper turbine, guide bearings renewed, turbine generally overhauled and new runners and distributors installed. June 18 to July 15, No. 9 unit: rivets renewed in the tubular main shaft. July 27 to August 10, No. 10 unit: rivets renewed in the tubular main shaft. November 30, 1931, to January 13, 1931, one service turbine was out of service for a complete overhauling.

The west branch tunnel, into which units 2, 4, 6, 8 and 10 discharge, was unwatered from September 29 to October 22, 1931, and the east tunnel, into which units 1, 3, 5, 7, 9 and 11 discharge, was out of service from October 22 to October 31, for inspection and repair. It is interesting to note that after twenty-five years of service these tunnels required less than three cubic yards of concrete to repair both the tunnels and the eleven draft tubes.

At the Toronto Power transformer station new line ground devices were installed, and the regular maintenance and repair work carried out.



Note.—The exceptional increase at October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers of the Toronto Power Company and the Ontario Power Company,—less export power

MONTHLY KILOWATT-HOURS
TAKEN BY THE
NIAGARA SYSTEM
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

On March 8 the No. 3 transformer in No. 1 bank failed in service and was badly damaged. As this unit is not required for service at the present time it has not been repaired.

The regular inspection and repair of all plant equipment and painting of building has been carried out according to regular schedules, in order that all equipment may be kept in the best possible condition.

Chats Falls Plant—Ottawa River

The Chats Falls generating station and step-up transformer equipment was ready for service and placed in operation on October 25, 1931. Up to October 31, the end of the fiscal year covered by this Report, only two generators, No. 2 and No. 3, were available and these were operated at less than normal capacity on account of construction work still in progress.

Transmission, Transformation and Distribution

The operation of the 220,000-volt section of the system was very satisfactory, there being no line or equipment failures during the year. There were five total interruptions on this system amounting to one hour and five minutes. Service to customers was affected only on two of these interruptions, for a total period of five minutes. Three of the interruptions were from causes external to the 220,000-volt system, and the other two probably were caused by lightning. Single line outages occurred on seven occasions, five apparently due to lightning, one to sleet, and one to an external cause.

The 110,000-volt transmission systems gave very satisfactory performance, and no complete interruption to service occurred during the year. The system was operated in three divisions, known as the yellow, green and blue, as in previous years, in order to promote continuity of service and limit stresses on equipment. On the green division there was one interruption of one and one half minutes caused by lightning. On the yellow system there were six interruptions, totalling nine minutes, three of which were from lightning, one from sleet, one from station trouble, and one from an external cause, and on the blue system five interruptions totalling fourteen minutes, one caused by lightning, one by sleet, two by station trouble and one by an external cause.

On January 5 and 6, sleet of moderate loading, together with gales, caused several circuit outages between Niagara and Dundas, but did not cause any serious damage. This disturbance also caused a number of interruptions on the low-tension lines in Brant, Woodstock, St. Thomas and Essex districts.

On February 7, a sleet storm affected the service in the Kent and Essex districts, but caused no serious trouble.

During the latter part of June there were a number of severe electrical storms which caused numerous outages on the circuits between Dundas and London, but, due to the number of tie lines, service was not seriously affected.

On July 17, high winds in the Stratford district caused the failure of twenty-seven poles on the low-tension lines feeding to the north and west of this station, causing a lengthy interruption to customers served by these lines.

The regular patrol, inspection and maintenance work was carried out on all lines during the year. All lines damaged by storms and otherwise were repaired, insulators were meggered and tested on both high-tension and distribution lines.

All towers on the original 110,000-volt circuit between Niagara Falls and Dundas were painted. The ground wire was replaced from Islington Junction to Bridgman Station, and vibration dampers were installed on the 110,000-volt lines between Queenston and Hamilton.

The low-tension lines in the Essex district were completely overhauled, the railway crossings in the Kitchener-Preston districts were rebuilt to conform to the specifications of the Board of Railway Commissioners, and a large amount of work was carried on at various places due to highway improvements and other construction, necessitating the relocation of poles and towers.

The third 220,000-volt transmission line between Leaside station and the Ottawa river, was placed in service October 24, 1931, to carry the output of the Chats Falls development.

A new 110,000-volt circuit from East Hamilton station to the Stirton Street sub-station at Hamilton was placed in service.

The following 26,000-volt distribution lines were put in operation: From Comet junction to Comet distributing station; from St. Andrews to Pottageville; and from Keswick to Sutton.

The former 13,200-volt circuit between Willowdale and Keswick, carrying power on north Yonge street, was reinsulated and placed in service on 26,000 volts.

New 13,000-volt lines were put in service from Port Colborne transformer station to the Welland Canal; from the Welland transformer station to the Page Hersey Company, and from the Norton Company to the Niagara Falls Waterworks station.

Between West Lorne and Rodney, a new 4,000-volt circuit was built and the old circuit removed from the Commission's high-tension telephone lines.

All station equipment was inspected, and where required, overhauled, and repairs made to all damaged equipment.

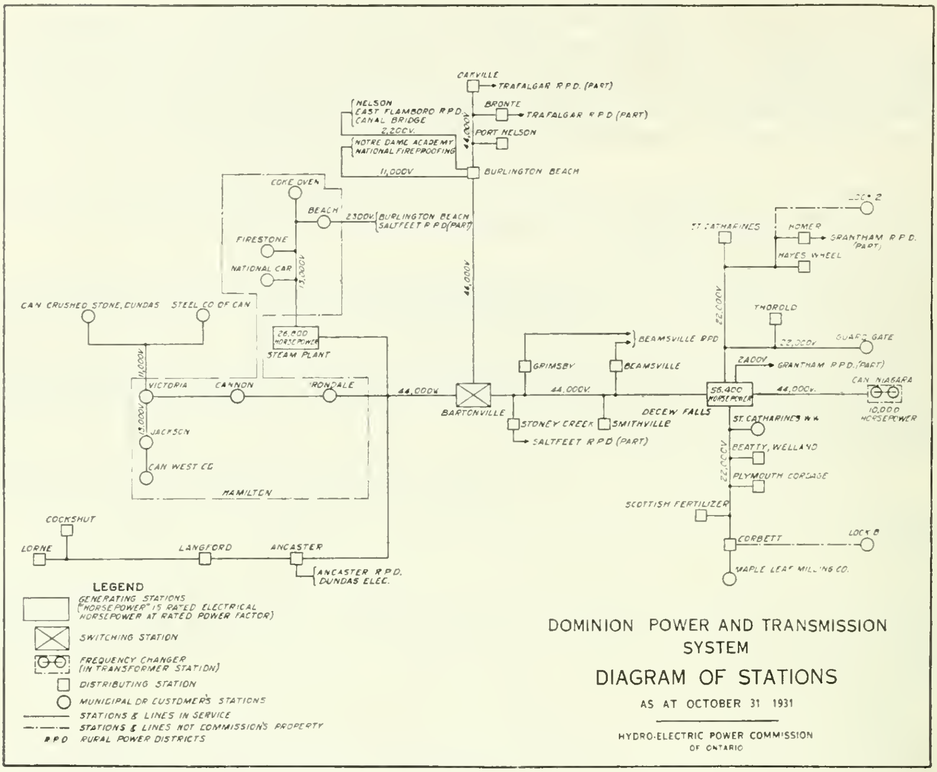
There were eighteen failures of transformers during the year, some of which were returned to the manufacturers for repairs and the balance taken care of by the Commission's own maintenance staff. One 750-Kv-a. 110,000-volt unit was rebuilt for use as a spare unit at Hanover.

New control storage batteries were installed in Kent, Essex and Hamilton stations, and 50-watt radio transmitters were constructed and installed at Toronto, London, Essex and Niagara stations.

Modern telephone protective equipment was installed at Niagara Falls and at many other places on the Niagara system, providing better protection to all telephone instruments.

During the year a number of changes were made in the transformer capacity at high-tension stations and distribution stations, as covered in the electrical engineering and construction sections of this report.

The following new distributing stations were put in service during the year: Comet, Guelph rural, Kingsville, Newmarket, North Yonge Auto-transformer station, Pottageville, Richmond Hill, Sarnia Beach, Strathroy rural, Sutton, Willowdale. Old stations were dismantled at Bond Lake, Kingsville, and Newmarket.



DOMINION POWER AND TRANSMISSION SYSTEM

DIAGRAM OF STATIONS

AS AT OCTOBER 31 1931

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

OAKVILLE
TRAFALGAR R.P.D. (PART)
BRONTE
TRAFALGAR R.P.D (PART)
NELSON
EAST FLAMBORO R.P.D.
CANAL BRIDGE
2,200V.
PORT NELSON
NOTRE DAME ACADEMY
NATIONAL FIREPROOFING
11,000V
BURLINGTON BEACH
44,000V
COKE OVEN
BEACH
2300V.
BURLINGTON BEACH
SALTFEET R.P.D.(PART)
FIRESTONE
NATIONAL CAR
13,000V
CAN CRUSHED STONE, DUNDAS
STEEL CO OF CAN
26,000 HORSEPOWER
STEAM PLANT
11,000V
VICTORIA
CANNON
IRONDALE
13,000V
JACKSON
CAN WEST CO
HAMILTON
44,000V
BARTONVILLE
COCKSHUT
LORNE
LANGFORD
ANCASTER
ANCASTER R.P.D.
DUNDAS ELEC.
GRIMSBY
BEAMSVILLE
BEAMSVILLE R.P.D
44,000V.
STONEY CREEK
SMITHVILLE
SALTFEET R.P.D (PART)
DECEW FALLS
56,400 HORSEPOWER
ST. CATHARINES
LOCK 2
HOMER
GRANTHAM R.P.D. (PART)
HAYES WHEEL
22,000V
THOROLD
22,000V
GUARD GATE
2400V
GRANTHAM R.P.D.(PART)
CAN NIAGARA
44,000V.
10,000 HORSEPOWER
ST. CATHARINES W.W.
BEATTY, WELLAND
22,000V
PLYMOUTH CORDAGE
SCOTTISH FERTILIZER
CORBETT
LOCK 8
MAPLE LEAF MILLING CO.
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
SWITCHING STATION
FREQUENCY CHANGER (IN TRANSFORMER STATION)
DISTRIBUTING STATION
MUNICIPAL OR CUSTOMER'S STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D RURAL POWER DISTRICTS

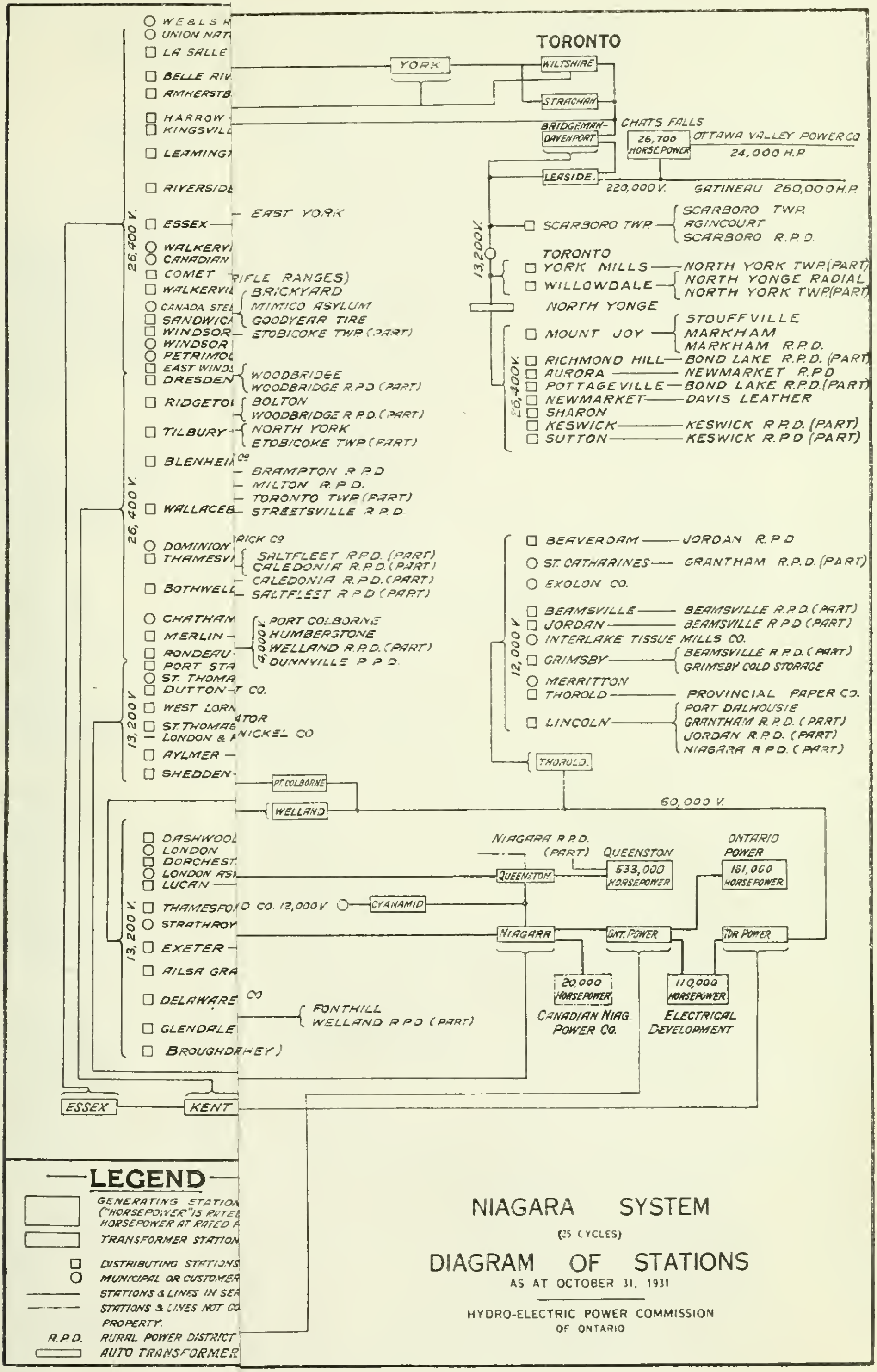
Dominion Power and Transmission System

The Dominion Power and Transmission system was operated as a separate unit during the year, all power being supplied from the DeCew Falls generating station, the Hamilton steam plant, and the Canadian Niagara Power Company, in the same manner as previous to the acquisition of this system by the Commission.

In general there were no serious failures of equipment, and only one complete interruption to service on the system, of 58 minutes duration. In the Hamilton division there were nine interruptions, totalling one hour and twenty-eight minutes, five of which were caused by line failures and four by station equipment. In the Lincoln County district there were two interruptions totalling two hours and four minutes, one due to failure of equipment and one for extensive maintenance work.

At the DeCew Falls plant units number 0, 1, 3, 7 and 8 were given a general overhaul, including welding turbine runners and shafts, repairing seal rings and cleaning and painting generators. At the steam plant no major maintenance was required, but all equipment was kept in good operating condition.

On January 5 and 6, 1931, a severe wind and sleet storm on the Hamilton mountain damaged about one and a half miles of 44,000-volt circuits; these lines were rebuilt. The usual regular inspection and maintenance, including replacing of poles, crossarms and insulators, was carried out.



TORONTO
YORK
WILTSHIRE
STRACHAN
BRIDGEMAN-DAVENPORT
LEASIDE.
CHATS FALLS
26,700 HORSEPOWER
OTTAWA VALLEY POWER CO
24,000 H.P.
220,000 V.
GATINEAU 260,000 H.P.
13,200 V.
SCARBORO TWP.
SCARBORO TWP.
AGINCOURT
SCARBORO R.P.D.
TORONTO
YORK MILLS
NORTH YORK TWP. (PART)
WILLOWDALE
NORTH YONGE RADIAL
NORTH YORK TWP. (PART)
NORTH YONGE
26,400 V.
MOUNT JOY
STOUFFVILLE
MARKHAM
MARKHAM R.P.D.
RICHMOND HILL
BOND LAKE R.P.D. (PART)
AURORA
NEWMARKET R.P.D
POTTAGEVILLE
BOND LAKE R.P.D. (PART)
NEWMARKET
DAVIS LEATHER
SHARON
KESWICK
KESWICK R.P.D. (PART)
SUTTON
KESWICK R.P.D. (PART)
EAST YORK
RIFLE RANGES)
BRICKYARD
MIMICO ASYLUM
GOODYEAR TIRE
ETOBICOKE TWP. (PART)
WOODBRIDGE
WOODBRIDGE R.P.D. (PART)
BOLTON
WOODBRIDGE R.P.D. (PART)
NORTH YORK
ETOBICOKE TWP. (PART)
BRAMPTON R.P.D
MILTON R.P.D.
TORONTO TWP. (PART)
STREETSVILLE R.P.D.
SALTFLEET R.P.D. (PART)
CALEDONIA R.P.D. (PART)
CALEDONIA R.P.D. (PART)
SALTFLEET R.P.D. (PART)
4,000 V.
PORT COLBORNE
HUMBERSTONE
WELLAND R.P.D. (PART)
DUNNVILLE R.P.D.
12,000 V.
BEAVERDAM
JORDAN R.P.D
ST. CATHARINES
GRANTHAM R.P.D. (PART)
EXOLON CO.
BEAMSVILLE
BEAMSVILLE R.P.D. (PART)
JORDAN
BEAMSVILLE R.P.D. (PART)
INTERLAKE TISSUE MILLS CO.
GRIMSBY
BEAMSVILLE R.P.D. (PART)
GRIMSBY COLD STORAGE
MERRITTON
THOROLD
PROVINCIAL PAPER CO.
LINCOLN
PORT DALHOUSIE
GRANTHAM R.P.D. (PART)
JORDAN R.P.D. (PART)
NIAGARA R.P.D. (PART)
THOROLD
PT. COLBORNE
WELLAND
60,000 V.
NIAGARA R.P.D. (PART)
QUEENSTON
533,000 HORSEPOWER
ONTARIO POWER
161,000 HORSEPOWER
QUEENSTON
CYANAMID
CO. 12,000 V
NIAGARA
ONT. POWER
TOR. POWER
20,000 HORSEPOWER
CANADIAN NIAG POWER CO.
110,000 HORSEPOWER
ELECTRICAL DEVELOPMENT
FONTHILL
WELLAND R.P.D. (PART)
26,400 V.
WE&LS R
UNION NAT
LA SALLE
BELLE RIV
AMHERSTB
HARROW
KINGSVILL
LEAMINGT
RIVERSIDE
ESSEX
WALKERVI
CANADIAN
COMET
WALKERVIL
CANADA STEE
SANDWICH
WINDSOR
WINDSOR
PETRIMOL
EAST WINDS
DRESDEN
RIDGETO
TILBURY
BLENHEI
CO
26,400 V.
WALLACEB
DOMINION
RICK CO
THAMESVI
BOTHWELL
CHATHAM
MERLIN
RONDEAU
PORT STA
ST. THOMA
13,200 V.
DUTTON
T CO.
WEST LORN
ST. THOMAS
ATOR
LONDON &
NICKEL CO
AYLMER
SHEDDEN
DASHWOOL
LONDON
DORCHEST
LONDON ASY
LUCAN
13,200 V.
THAMESFO
STRATHROY
EXETER
AILSA GRA
DELAWARE
CO
GLENDALE
BROUGHDAHEY)
ESSEX
KENT

LEGEND

GENERATING STATION ("HORSEPOWER" IS RATED HORSEPOWER AT RATED
TRANSFORMER STATION
□ DISTRIBUTING STATIONS
○ MUNICIPAL OR CUSTOMER
STATIONS & LINES IN SER
STATIONS & LINES NOT CO PROPERTY.
R.P.D. RURAL POWER DISTRICT
AUTO TRANSFORMER

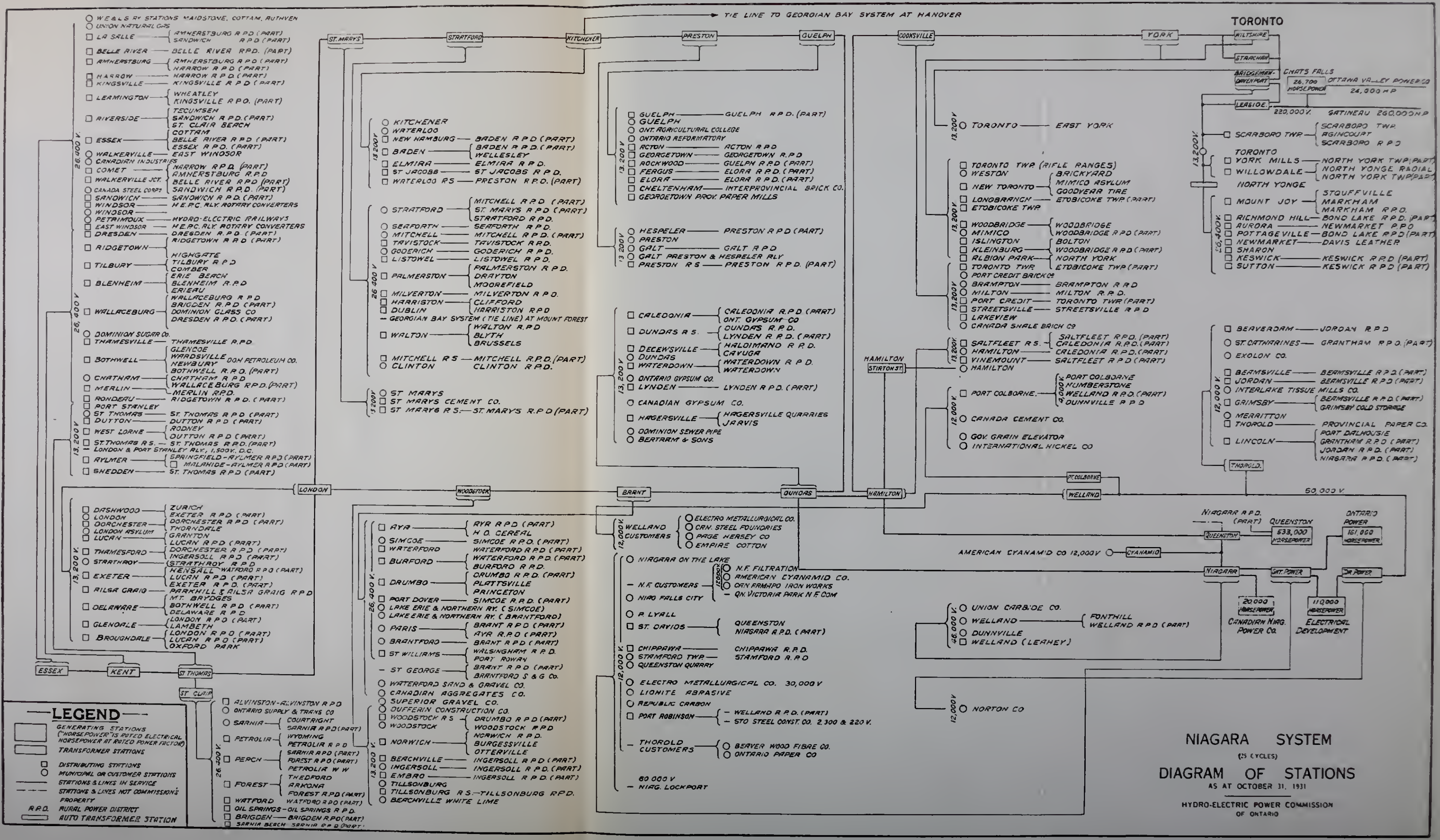
NIAGARA SYSTEM

(25 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO


TIE LINE TO GEORGIAN BAY SYSTEM AT HANOVER
ST. MARYS
STRATFORD
KITCHENER
PRESTON
GUELPH
COOKSVILLE
YORK
TORONTO
WILTSHIRE
STRACHAN
BRIDGEMAN-DAVENPORT
LEASIDE
CHATS FALLS
26,700 HORSEPOWER
OTTAWA VALLEY POWER CO 24,000 H.P.
220,000 V.
GATINEAU 260,000 H.P.
WEALS RY STATIONS MAIDSTONE, COTTAM, RUTHVEN
UNION NATURAL GAS
LA SALLE — AMHERSTBURG R.P.D. (PART), SANDWICH R.P.D. (PART)
BELLE RIVER — BELLE RIVER R.P.D. (PART)
AMHERSTBURG — AMHERSTBURG R.P.D. (PART), HARROW R.P.D. (PART)
HARROW — HARROW R.P.D. (PART)
KINGSVILLE — KINGSVILLE R.P.D. (PART)
LEAMINGTON — WHEATLEY, KINGSVILLE R.P.D. (PART)
RIVERSIDE — TECUMSEH, SANDWICH R.P.D. (PART), ST. CLAIR BEACH
ESSEX — COTTAM, BELLE RIVER R.P.D. (PART), ESSEX R.P.D. (PART)
WALKERVILLE — EAST WINDSOR
CANADIAN INDUSTRIES
COMET — HARROW R.P.D. (PART), AMHERSTBURG R.P.D.
WALKERVILLE JCT. — BELLE RIVER R.P.D. (PART)
CANADA STEEL CORP'N — SANDWICH R.P.D. (PART)
SANDWICH — SANDWICH R.P.D. (PART)
WINDSOR — H.E.P.C. RLY. ROTARY CONVERTERS
WINDSOR
PETRIMOUX — HYDRO-ELECTRIC RAILWAYS
EAST WINDSOR — H.E.P.C. RLY. ROTARY CONVERTERS
DRESDEN — DRESDEN R.P.D. (PART)
RIDGETOWN — RIDGETOWN R.P.D. (PART)
TILBURY — HIGHGATE, TILBURY R.P.D., COMBER
BLENHEIM — ERIE BEACH, BLENHEIM R.P.D., ERIEAU
WALLACEBURG — WALLACEBURG R.P.D., BRIGDEN R.P.D. (PART), DOMINION GLASS CO, DRESDEN R.P.D. (PART)
26,400 V.
DOMINION SUGAR CO.
THAMESVILLE — THAMESVILLE R.P.D.
BOTHWELL — GLENCOE, WARDSVILLE, NEWBURY, BOTHWELL R.P.D. (PART), DOM PETROLEUM CO.
CHATHAM — CHATHAM R.P.D., WALLACEBURG R.P.D. (PART)
MERLIN — MERLIN R.P.D.
RONDEAU — RIDGETOWN R.P.D. (PART)
PORT STANLEY
ST THOMAS — ST. THOMAS R.P.D. (PART)
DUTTON — DUTTON R.P.D. (PART)
WEST LORNE — RODNEY, DUTTON R.P.D. (PART)
13,200 V.
ST. THOMAS R.S. — ST. THOMAS R.P.D. (PART)
LONDON & PORT STANLEY RLY. 1,500V. D.C.
AYLMER — SPRINGFIELD-AYLMER R.P.D. (PART), MALAHIDE-AYLMER R.P.D. (PART)
SHEDDEN — ST. THOMAS R.P.D. (PART)
LONDON
WOODSTOCK
BRANT
DUNDAS
HAMILTON
DASHWOOD — ZURICH
LONDON — EXETER R.P.D. (PART)
DORCHESTER — DORCHESTER R.P.D. (PART)
LONDON ASYLUM — THORNDALE
LUCAN — GRANTON, LUCAN R.P.D. (PART)
THAMESFORD — DORCHESTER R.P.D. (PART), INGERSOLL R.P.D. (PART)
STRATHROY — STRATHROY R.P.D.
EXETER — HENSALL, WATFORD R.P.D. (PART), LUCAN R.P.D. (PART), EXETER R.P.D. (PART)
AILSA CRAIG — PARKHILL & AILSA CRAIG R.P.D.
DELAWARE — MT. BRYDGES, BOTHWELL R.P.D. (PART), DELAWARE R.P.D.
GLENDALE — LONDON R.P.D. (PART), LAMBETH
BROUGHDALE — LONDON R.P.D. (PART), LUCAN R.P.D. (PART), OXFORD PARK
ESSEX
KENT
ST THOMAS
ST CLAIR
ALVINSTON — ALVINSTON R.P.D.
ONTARIO SUPPLY & TRANS CO
SARNIA — COURTRIGHT, SARNIA R.P.D. (PART)
PETROLIA — WYOMING, PETROLIA R.P.D.
PERCH — SARNIA R.P.D. (PART), FOREST R.P.D. (PART), PETROLIA W.W.
FOREST — THEDFORD, ARKONA, FOREST R.P.D. (PART)
WATFORD — WATFORD R.P.D. (PART)
OIL SPRINGS — OIL SPRINGS R.P.D.
BRIGDEN — BRIGDEN R.P.D. (PART)
SARNIA BEACH — SARNIA R.P.D. (PART)
KITCHENER
WATERLOO
NEW HAMBURG — BADEN R.P.D. (PART)
BADEN — BADEN R.P.D. (PART), WELLESLEY
ELMIRA — ELMIRA R.P.D.
ST JACOBS — ST. JACOBS R.P.D.
WATERLOO R.S. — PRESTON R.P.D. (PART)
STRATFORD — MITCHELL R.P.D. (PART), ST. MARYS R.P.D. (PART), STRATFORD R.P.D.
SEAFORTH — SEAFORTH R.P.D.
MITCHELL — MITCHELL R.P.D. (PART)
TAVISTOCK — TAVISTOCK R.P.D.
GODERICH — GODERICH R.P.D.
LISTOWEL — LISTOWEL R.P.D.
PALMERSTON — PALMERSTON R.P.D., DRAYTON, MOOREFIELD
MILVERTON — MILVERTON R.P.D.
HARRISTON — CLIFFORD
DUBLIN — HARRISTON R.P.D.
GEORGIAN BAY SYSTEM (TIE LINE) AT MOUNT FOREST
WALTON — WALTON R.P.D., BLYTH, BRUSSELS
MITCHELL R.S. — MITCHELL R.P.D. (PART)
CLINTON — CLINTON R.P.D.
ST MARYS
ST MARYS CEMENT CO.
ST MARYS R.S. — ST. MARYS R.P.D. (PART)
AYR — AYR R.P.D. (PART), H.O. CEREAL
SIMCOE — SIMCOE R.P.D. (PART)
WATERFORD — WATERFORD R.P.D. (PART)
BURFORD — WATERFORD R.P.D. (PART), BURFORD R.P.D.
DRUMBO — DRUMBO R.P.D. (PART), PLATTSVILLE, PRINCETON
PORT DOVER — SIMCOE R.P.D. (PART)
LAKE ERIE & NORTHERN RY. (SIMCOE)
LAKE ERIE & NORTHERN RY. (BRANTFORD)
PARIS — BRANT R.P.D. (PART), AYR R.P.D. (PART)
BRANTFORD — BRANT R.P.D. (PART)
ST WILLIAMS — WALSINGHAM R.P.D., PORT ROWAN
ST GEORGE — BRANT R.P.D. (PART), BRANTFORD S & G CO.
WATERFORD SAND & GRAVEL CO.
CANADIAN AGGREGATES CO.
SUPERIOR GRAVEL CO.
DUFFERIN CONSTRUCTION CO.
WOODSTOCK R.S. — DRUMBO R.P.D. (PART)
WOODSTOCK — WOODSTOCK R.P.D.
NORWICH — NORWICH R.P.D., BURGESSVILLE, OTTERVILLE
BEACHVILLE — INGERSOLL R.P.D. (PART)
INGERSOLL — INGERSOLL R.P.D. (PART)
EMBRO — INGERSOLL R.P.D. (PART)
TILLSONBURG
TILLSONBURG R.S. — TILLSONBURG R.P.D.
BEACHVILLE WHITE LIME
GUELPH — GUELPH R.P.D. (PART)
GUELPH
ONT. AGRICULTURAL COLLEGE
ONTARIO REFORMATORY
ACTON — ACTON R.P.D.
GEORGETOWN — GEORGETOWN R.P.D.
ROCKWOOD — GUELPH R.P.D. (PART)
FERGUS — ELORA R.P.D. (PART)
ELORA — ELORA R.P.D. (PART)
CHELTENHAM — INTERPROVINCIAL BRICK CO.
GEORGETOWN PROV. PAPER MILLS
HESPELER — PRESTON R.P.D. (PART)
PRESTON
GALT — GALT R.P.D.
GALT PRESTON & HESPELER RLY
PRESTON R.S. — PRESTON R.P.D. (PART)
CALEDONIA — CALEDONIA R.P.D. (PART), ONT. GYPSUM CO
DUNDAS R.S. — DUNDAS R.P.D., LYNDEN R.P.D. (PART)
DECEWSVILLE — HALDIMAND R.P.D., CAYUGA
DUNDAS
WATERDOWN — WATERDOWN R.P.D., WATERDOWN
ONTARIO GYPSUM CO.
LYNDEN — LYNDEN R.P.D. (PART)
CANADIAN GYPSUM CO.
HAGERSVILLE — HAGERSVILLE QUARRIES, JARVIS
DOMINION SEWER PIPE
BERTRAM & SONS
12,000 V. WELLAND CUSTOMERS — ELECTRO METALLURGICAL CO., CAN. STEEL FOUNDRIES, PAGE HERSEY CO, EMPIRE COTTON
NIAGARA ON THE LAKE
N.F. CUSTOMERS — N.F. FILTRATION, AMERICAN CYANAMID CO., CAN. RAMAPO IRON WORKS, QN. VICTORIA PARK N.F. COM
NIAG. FALLS CITY
A. LYALL
ST. DAVIDS — QUEENSTON, NIAGARA R.P.D. (PART)
CHIPPAWA — CHIPPAWA R.P.D.
STAMFORD TWP. — STAMFORD R.P.D.
QUEENSTON QUARRY
ELECTRO METALLURGICAL CO. 30,000 V
LIONITE ABRASIVE
REPUBLIC CARBON
PORT ROBINSON — WELLAND R.P.D. (PART), STD STEEL CONST. CO. 2,300 & 220 V.
THOROLD CUSTOMERS — BEAVER WOOD FIBRE CO., ONTARIO PAPER CO
60,000 V
NIAG. LOCKPORT
TORONTO — EAST YORK
TORONTO TWP. (RIFLE RANGES)
WESTON
NEW TORONTO — BRICKYARD, MIMICO ASYLUM, GOODYEAR TIRE
LONGBRANCH — ETOBICOKE TWP. (PART)
ETOBICOKE TWP.
WOODBRIDGE — WOODBRIDGE, WOODBRIDGE R.P.D. (PART)
MIMICO
ISLINGTON — BOLTON
KLEINBURG — WOODBRIDGE R.P.D. (PART)
ALBION PARK — NORTH YORK
TORONTO TWP. — ETOBICOKE TWP. (PART)
PORT CREDIT BRICK CO.
BRAMPTON — BRAMPTON R.P.D.
MILTON — MILTON R.P.D.
PORT CREDIT — TORONTO TWP. (PART)
STREETSVILLE — STREETSVILLE R.P.D.
LAKEVIEW
CANADA SHALE BRICK CO.
HAMILTON STIRTON ST.
SALTFLEET R.S. — SALTFLEET R.P.D. (PART), CALEDONIA R.P.D. (PART)
HAMILTON — CALEDONIA R.P.D. (PART)
VINEMOUNT — SALTFLEET R.P.D. (PART)
HAMILTON
PORT COLBORNE — PORT COLBORNE, HUMBERSTONE, WELLAND R.P.D. (PART), DUNNVILLE R.P.D.
4,000 V.
CANADA CEMENT CO.
GOV. GRAIN ELEVATOR
INTERNATIONAL NICKEL CO
SCARBORO TWP. — SCARBORO TWP., AGINCOURT, SCARBORO R.P.D.
TORONTO
YORK MILLS — NORTH YORK TWP. (PART)
WILLOWDALE — NORTH YONGE RADIAL, NORTH YORK TWP. (PART)
NORTH YONGE
MOUNT JOY — STOUFFVILLE, MARKHAM, MARKHAM R.P.D.
RICHMOND HILL — BOND LAKE R.P.D. (PART)
AURORA — NEWMARKET R.P.D.
POTTAGEVILLE — BOND LAKE R.P.D. (PART)
NEWMARKET — DAVIS LEATHER
SHARON
KESWICK — KESWICK R.P.D. (PART)
SUTTON — KESWICK R.P.D. (PART)
BEAVERDAM — JORDAN R.P.D.
ST. CATHARINES — GRANTHAM R.P.D. (PART)
EXOLON CO.
BEAMSVILLE — BEAMSVILLE R.P.D. (PART)
JORDAN — BEAMSVILLE R.P.D. (PART)
INTERLAKE TISSUE MILLS CO.
GRIMSBY — BEAMSVILLE R.P.D. (PART), GRIMSBY COLD STORAGE
MERRITTON
THOROLD — PROVINCIAL PAPER CO.
LINCOLN — PORT DALHOUSIE, GRANTHAM R.P.D. (PART), JORDAN R.P.D. (PART), NIAGARA R.P.D. (PART)
THOROLD
PT. COLBORNE
WELLAND
60,000 V.
NIAGARA R.P.D. (PART)
QUEENSTON
QUEENSTON 533,000 HORSEPOWER
ONTARIO POWER 161,000 HORSEPOWER
AMERICAN CYANAMID CO 12,000 V
CYANAMID
NIAGARA
CAN. POWER
ONT. POWER
UNION CARBIDE CO.
WELLAND — FONTHILL, WELLAND R.P.D. (PART)
DUNNVILLE
WELLAND (LEAHEY)
46,000 V.
20,000 HORSEPOWER
CANADIAN NIAG. POWER CO.
110,000 HORSEPOWER
ELECTRICAL DEVELOPMENT
NORTON CO
26,400 V.
13,200 V.
12,000 V.
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
□ DISTRIBUTING STATIONS
○ MUNICIPAL OR CUSTOMER STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D. RURAL POWER DISTRICT
AUTO TRANSFORMER STATION

NIAGARA SYSTEM
(25 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Acton	609.0	778.7	681.7	97.0	....
Agincourt	123.0	131.3	149.0	....	17.7
Ailsa Craig	82.3	87.9	147.9	....	60.0
Alvinston	78.0	88.2	94.2	....	6.0
Amherstburg	573.7	600.5	714.5	....	114.0
Ancaster Township	351.2	250.6	277.5	....	26.9
Arkona	60.0	61.6	55.3	6.3	....
Aurora	825.7	860.6	968.3	....	107.7
Aylmer	457.3	529.5	490.6	38.9	....
Ayr	136.2	172.2	207.6	....	35.4
Baden	268.1	277.5	281.2	....	3.7
Barton Township‡	....	....	....	....	....
Beachville	260.0	238.6	329.7	....	91.1
Belle River	144.7	148.8	146.8	2.0	....
Blenheim	345.8	386.0	379.3	6.7	....
Blyth	91.4	85.8	93.5	....	7.7
Bolton	122.4	118.4	131.7	....	13.3
Bothwell	103.2	97.8	104.5	....	6.7
Brampton	2,018.2	2,116.7	2,345.9	....	229.2
Brantford	10,140.8	9,343.2	9,129.9	213.3	....
Brantford Township	630.0	542.5	530.8	11.7	....
Brigden	81.7	86.0	83.3	2.7	....
Brussels	123.3	136.7	134.4	2.3	....
Burford	138.6	141.3	143.6	....	2.3
Burgessville	49.2	56.3	55.2	1.1	....
Bridgeport	153.8	104.0	130.2	....	26.2
Caledonia	323.6	344.5	378.4	....	33.9
Campbellville	27.3	28.1	27.3	0.8	....
Cayuga	85.1	102.8	96.2	6.6	....
Chatham	4,637.2	4,188.1	4,167.0	21.1	....
Chippawa	260.0	270.8	261.4	9.4	....
Clifford	51.6	64.3	63.0	1.3	....
Clinton	399.4	415.	462.4	....	46.9
Comber	147.4	143.1	125.7	17.4	....
Courtright	49.6	47.5	40.7	6.8	....
Cottam	59.0	73.7	69.3	4.4	....
Dashwood	62.6	69.3	69.3	....	....
Delaware	36.4	38.8	37.6	1.2	....
Dorchester	72.2	75.7	81.7	....	6.0
Drayton	86.1	89.0	96.8	....	7.8
Dresden	278.0	291.9	319.0	....	27.1
Drumbo	65.4	53.6	64.2	....	10.6
Dublin	40.2	45.5	48.6	....	3.1
Dundas	1,555.0	1,447.7	1,280.1	167.6	....
Dunnville	668.9	758.7	786.0	....	27.3
Dutton	210.4	212.6	236.8	....	24.2
East Windsor	3,567.0	3,072.4	2,761.4	311.0	....
Elmira	1,067.0	760.8	777.5	....	16.7
Elora	401.6	422.2	411.5	10.7	....
Embro	79.7	81.4	98.5	....	17.1
Erieau	46.2	60.3	61.6	....	1.3
Erie Beach	9.8	16.7	11.1	5.6	....
Etobicoke Township†	2,942.4	3,345.7	3,159.5	186.2	....
Exeter	411.5	407.5	404.8	2.7	....
Essex	337.8	400.8	372.1	28.7	....

†Long Branch separated from Etobicoke Twp.
‡Barton Twp. absorbed by Saltfleet R.P.D.

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931—Continued

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Fergus	685.5	729.7	686.3	43.4	
Forest	269.9	290.8	305.6		14.8
Fonthill	123.2	126.7	163.6		36.9
Galt	7,089.6	6,854.3	6,301.6	552.7	
Georgetown	854.7	923.8	889.0	34.8	
Glencoe	147.4	159.5	173.2		13.7
Goderich	1,160.8	1,068.7	983.4	85.3	
Granton	80.0	47.9	93.4		45.5
Guelph	8,154.8	7,423.8	7,794.9		371.1
Hagersville	1,214.5	1,136.7	943.7	193.0	
Hamilton	65,685.8	60,434.8	86,641.1		26,206.3*
Harriston	268.1	292.9	311.6		18.7
Harrow	300.2	349.8	368.6		18.8
Hensall	152.4	146.1	165.5		19.4
Hespeler	1,134.6	1,453.1	1,831.4		378.3
Highgate	117.3	73.3	59.9	13.4	
Humberstone	268.1	331.1	384.7		53.6
Ingersoll	2,104.6	2,103.3	1,915.9	187.4	
Jarvis	169.3	172.9	179.9		7.0
Kingsville	411.5	451.7	446.4	5.3	
Kitchener	16,042.8	16,315.3	15,834.7	480.6	
Lambeth	97.2	107.2	107.2		
Leamington	1,272.1	1,042.9	1,065.9		23.0
Listowel	833.8	855.2	865.3		10.1
London	28,337.6	28,954.0	27,908.8	1,045.2	
London Township V.A.	230.2	293.5	311.2		17.7
Lucan	175.6	167.1	174.1		7.0
Lynden	67.5	85.1	83.1	2.0	
LaSalle	265.4	237.5	241.3		3.8
Markham	155.3	205.0	238.6		33.6
Merlin	162.2	174.2	91.8	82.4	
Merritton	2,300.3	2,603.2	2,281.5	321.7	
Milton	1,124.4	1,024.4	705.3	319.1	
Milverton	359.2	343.1	344.5		1.4
Mimico	2,010.7	2,013.4	2,103.1		89.7
Mimico Asylum	65.0	65.0	65.0		
Mitchell	393.4	469.1	500.0		30.9
Moorefield	54.0	30.8	48.2		17.4
Mount Brydges	76.9	80.4	89.0		8.6
Newbury	33.5	40.2	41.8		1.6
New Hamburg	413.3	492.9	492.3	0.6	
Newmarket	978.5	1,069.7	1,340.5		270.8
New Toronto	5,533.5	5,069.7	5,194.4		124.7
Niagara Falls	9,408.8	9,864.6	9,351.2	513.4	
Niagara-on-the-Lake	525.5	575.1	536.2	38.9	
Norwich	315.0	321.7	331.7		10.0
Oil Springs	180.0	182.4	156.9	25.5	
Ontario Agricultural College	270.8	320.3	401.6		81.3
Ontario Central Reformatory	208.5	229.2	282.8		53.6
Otterville	74.1	68.0	83.6		15.6

*The excessive increase in the Hamilton load is due to absorption of the D.P. & T. component since last year.

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931—Continued

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Palmerston	438.4	444.9	518.9		74.0
Paris	1,267.1	1,305.8	1,242.0	63.8	
Parkhill	147.4	150.1	140.7	9.4	
Petrolia	758.2	794.4	731.4	63.0	
Plattsville	51.7	49.6	60.8		11.2
Point Edward	398.1	664.9	267.4	397.5	
Port Colborne	1,481.2	1,595.2	1,608.6		13.4
Port Credit	485.2	591.1	537.5	53.6	
Port Dalhousie	380.7	423.6	457.1		33.5
Port Dover	280.8	296.9	315.2		18.3
Port Rowan	59.2	74.4	74.2	0.2	
Port Stanley	184.9	218.5	220.9		2.4
Preston	3,502.7	3,341.8	3,128.6	213.2	
Princeton	75.0	80.4	101.3		20.9
Queenston	85.8	83.1	87.1		4.0
Richmond Hill	249.3	257.9	317.3		59.4
Ridgetown	461.1	461.1	416.9	44.2	
Riverside	1,254.7	1,238.3	1,212.7	25.6	
Rockwood	70.1	107.2	104.5	2.7	
Rodney	130.6	139.8	145.6		5.8
St. Catharines	9,061.9	8,999.2	8,449.7	549.5	
St. Clair Beach	88.4	80.4	97.6		17.2
St. George	143.4	134.0	92.5	41.5	
St. Jacobs	203.4	246.5	140.2	106.3	
St. Marys	1,231.9	1,402.1	1,521.9		119.8
St. Thomas	5,502.7	5,624.6	5,643.4		18.8
Sarnia	6,447.6	6,950.3	6,801.6	148.7	
Sandwich	3,664.9	3,861.4	3,459.3	402.1	
Scarboro Township	2,294.8	2,788.2	3,034.8		246.6
Seaforth	663.4	466.1	510.9		44.8
Simcoe	1,153.3	1,365.1	1,491.1		126.0
Springfield	91.1	85.1	52.9	32.2	
Stamford Township	1,636.0	1,843.2	1,831.1	12.1	
Stouffville	128.1	155.5	194.7		39.2
Stratford	7,120.8	7,760.5	7,790.6		30.1
Strathroy	891.2	907.3	1,000.0		92.7
Sutton	107.2	144.4	150.4		6.0
Tavistock	420.9	431.6	523.6		92.0
Tecumseh	444.7	438.3	443.8		5.5
Thamesford	142.7	153.5	154.1		0.6
Thamesville	210.4	197.8	178.3	19.5	
Thedford	51.3	52.5	60.8		8.3
Thorndale	59.0	40.2	46.1		5.9
Thorold	1,448.0	2,170.9	1,941.7	229.2	
Tilbury	514.7	502.7	321.7	181.0	
Tillsonburg	841.8	811.0	884.7		73.7
Toronto	270,628.0	280,280.0	289,262.7		8,982.6
Toronto Township	1,268.1	1,612.3	1,668.1		55.8
Walkerville	8,729.2	8,256.0	6,348.5	1,907.5	
Wallaceburg	3,451.7	1,808.3	1,059.0	749.3	
Wardsville	29.5	32.1	38.0		5.9
Waterdown	202.3	246.0	231.9	14.1	
Waterford	382.0	371.3	380.0		8.7
Waterloo	3,203.3	2,814.7	2,946.2		131.5

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931—Continued

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Watford	171.6	167.5	200.4		32.9
Welland	4,248.0	3,848.5	3,967.8		119.3
Wellesley	104.6	126.6	142.7		16.1
West Lorne	345.8	273.4	97.8	175.6	
Weston	2,957.1	3,150.1	2,619.2	530.9	
Wheatley	134.8	142.0	155.7		13.7
Windsor	27,712.3	28,087.8	25,431.8	2,656.0	
Woodbridge	209.1	288.2	293.5		5.3
Woodstock	4,977.2	4,879.3	4,781.5		97.8
Wyoming	50.6	61.0	60.3	.7	
York, East Township	4,017.4	4,788.2	5,138.0		349.8
York, North Township	1,414.2	2,143.4	2,757.4		614.0
Zurich	83.2	92.5	85.9	6.6	

NIAGARA SYSTEM—NEW MUNICIPALITIES

Name	Connected	Load in horsepower		Decrease	Increase
		Initial	Oct. 1931		
Long Branch*	Jan. 1st, 1930	614.7	754.1		139.4

*This load was formerly part of Etobicoke Twp. load.

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1929-1930-1931

Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Acton	2.0	2.0	10.0		8.0
Ailsa Craig		0.8	5.6		4.8
Alvinston	1.0	1.6	3.2		1.6
Amherstburg	533.1	525.2	518.8	6.4	
Aylmer	155.3	245.3	304.8		59.5
Ayr	16.5	24.5	32.0		7.5
Baden	193.1	253.7	293.6		39.9
Beamsville*	625.3	915.5	1,072.2		156.7
Belle River	261.0	263.2	269.9		6.7
Blenheim	134.7	123.1	153.5		30.4
Brant	291.4	451.6	565.2		113.6
Bond Lake	522.8	715.3	840.7		125.4

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1929-1930-1931—Continued

Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Bothwell	109.5	124.5	102.7	21.8	....
Brampton	109.1	119.2	127.3	....	8.1
Brigden	27.0	33.2	35.7	....	2.5
Burford	93.5	105.9	145.3	....	39.4
Caledonia	136.7	209.2	205.5	3.7	....
Chatham	411.0	470.1	434.0	36.1	....
Chippawa	99.2	120.6	109.9	10.7	....
Clinton	61.8	90.1	124.6	....	34.5
Delaware	201.1	247.4	297.2	....	49.8
Dorchester	290.8	321.4	335.9	....	14.5
Dresden	3.7	10.0	28.5	....	18.5
Drumbo	36.3	85.9	64.6	21.3	....
Dundas*	415.3	355.6	552.3	....	196.7
Dunnville	4.0	4.0	29.0	....	25.0
Dutton	82.5	100.0	115.7	....	15.7
Elora	43.3	84.0	139.8	....	55.8
Elmira	24.1	40.8	72.7	....	31.9
Essex	214.9	209.5	213.9	....	4.4
Exeter	160.0	194.4	217.6	....	23.2
Forest	6.3	16.3	28.0	....	11.7
Galt	131.4	154.7	179.6	....	24.9
Georgetown	47.4	123.1	132.4	....	9.3
Goderich	42.9	65.0	71.5	....	6.5
Grantham*	434.1	479.6	643.2	....	163.6
Guelph	115.5	348.5	392.1	....	43.6
Haldimand	40.0	228.2	193.2	35.0	....
Harrow	205.2	349.8	399.4	....	49.6
Harriston	3.0	4.8	22.1	....	17.3
Ingersoll	361.0	303.2	370.6	....	67.4
Jordan	207.5	294.6	200.0	94.6	....
Keswick	151.4	209.5	291.1	....	81.6
Kingsville	402.3	545.3	526.6	18.7	....
Listowel	63.5	96.5	113.9	....	17.4
London	1,222.6	1,420.3	1,451.8	....	31.5
Lucan	41.9	66.5	65.3	1.2	....
Lynden	101.6	143.0	160.0	....	17.0
Markham	208.42	296.2	387.7	....	91.5
Merlin	84.1	144.7	157.5	....	12.8
Milton	105.1	99.8	124.8	....	25.0
Milverton	36.8	45.5	74.5	....	29.0
Mitchell	123.6	161.0	190.4	....	29.4
Newmarket	207.3	213.8	290.3	....	76.5
Niagara	523.0	504.5	598.9	....	94.4
Norwich	198.4	202.0	207.7	....	5.7
Oil Springs	38.5	37.1	45.5	....	8.4

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1929-1930-1931—Continued

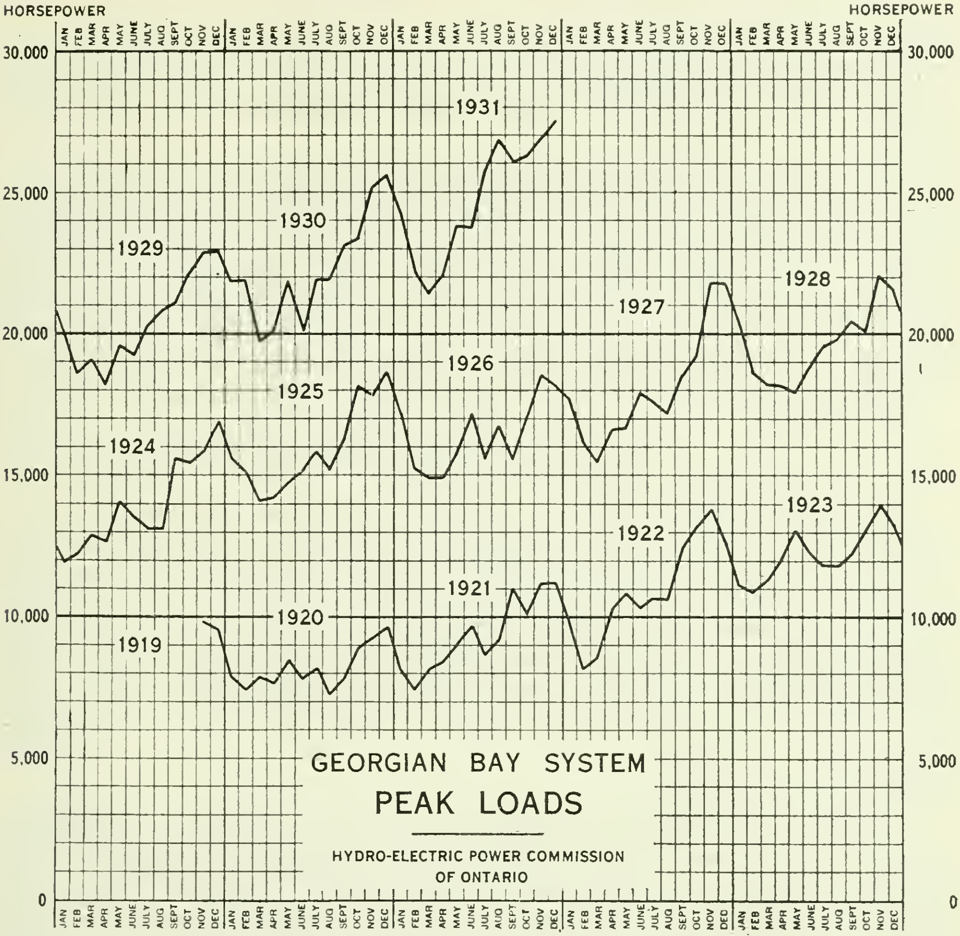
Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct., 1929	Oct., 1930	Oct., 1931	Decrease	Increase
Palmerston	3.8	4.0	31.5		27.5
Petrolia	5.3	27.0	25.3	1.7	
Preston	607.7	770.4	848.1		77.7
Ridgetown	255.3	328.7	284.2	44.5	
Saltfleet*	522.2	663.8	1,114.6		450.8
Sandwich	1,022.4	1,060.9	1,008.3	52.6	
Sarnia	435.6	427.7	491.1		63.4
Scarboro	205.0	285.5	315.0		29.5
Seaforth	23.7	36.5	46.3		9.8
Stratford	136.2	167.8	176.1		8.3
St. Jacobs	165.1	238.7	241.9		3.2
St. Marys	142.7	185.7	243.6		57.9
St. Thomas	391.4	460.6	465.0		4.4
Simcoe	122.0	155.5	175.0		19.5
Stamford	161.6	174.9	193.0		18.1
Strathroy	31.9	37.2	96.6		59.4
Streetsville	274.0	342.5	376.2		33.7
Tavistock	110.2	141.1	165.7		24.6
Thamesville	67.0	97.7	105.9		8.2
Tilbury	38.6	67.3	78.1		10.8
Tillsonburg	239.0	279.9	321.3		41.4
Wallaceburg	137.6	114.7	180.5		65.8
Walsingham	45.8	76.8	128.7		51.9
Walton	70.7	66.7	84.5		17.8
Waterford	75.6	119.0	129.2		10.2
Waterdown*	389.3	491.2	830.5		339.3
Watford		11.5	17.6		6.1
Welland	1,218.6	1,095.2	1,115.3		20.1
Woodbridge	559.8	538.3	561.9		23.6
Woodstock	394.3	501.1	480.6	20.5	

Note:—Beamsville, Dundas, Grantham, Saltfleet and Waterdown rural power districts show a large increase due to the inclusion of 66 cycle Dominion Power and Transmission system loads.

GEORGIAN BAY SYSTEM

The Georgian Bay system peak shows an increase of fourteen per cent over last year, and the average load shows an increase of six per cent. Approximately two-thirds of this increase is due to the inclusion this year of Bala and Bruce district loads, for which no figures were available last year as the necessary meters had not been installed.

The town of Barrie changed its distributing system from two-phase to three-phase during the year, and the load is now carried altogether on the 3,000-kv-a. three-phase bank of transformers which was installed last year.



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier Annual Reports. The load of the new district at Bala is not included in above graph until April, 1931, previous meter records being incomplete.

The two 700-kv-a. transformer banks, formerly connected for three-phase to two-phase transformation, were removed from service. A spare 1,000-kv-a. transformer was purchased and shipped to Barrie to safeguard the service in case of a failure in one transformer of the 3,000-kv-a. bank.

At Stayner the transformer capacity was increased from 300 kv-a. to 750 kv-a. and the Stayner low tension bus voltage increased from 4,000 volts to 8,000 volts. A bank of three 75-kv-a. transformers, formerly used as a step-up bank on Wasaga Beach feeder, was moved to Stayner distributing station to step down the bus voltage to 4,000 volts for Stayner distribution, while Wasaga Beach and Creemore feeders (both now operating at 8,000 volts) are fed directly off Stayner distributing station low-tension bus.

At Midhurst distributing station transformer capacity was increased from 75 kv-a. to 300 kv-a. and low-tension voltage was raised from 4,000 to 8,000 volts.

At Fergusonvale distributing station, transformer capacity was increased from 50 kv-a. to 100 kv-a.

At Big Chute equipment for a new domestic water supply and sewage disposal system was installed to serve the boarding-house and the operators' cottages.

At the Big Chute plant, extensive repairs were carried out to the forebay canal walls. Defects have been progressive for a few years, and as load conditions permitted removing the plant from service on Sundays during a portion of the summer of 1931, the necessary repairs were made. The forebay canal was unwatered and blanket walls poured inside of the old walls in places where defects had occurred, patching was also done on the outside of the walls, toe walls were built on the inside of the canal where the concrete joins the rock foundation, and the portions of the canal walls formed by rock were given a gunite coating.

In the Severn district nineteen airbreak-switches were equipped with new operating mechanisms to improve operation under ice and sleet conditions.

The tie line between the Big Chute plant and the Swift Rapids plant of the town of Orillia was given special attention in the way of maintenance this year. Defective cross-arms, insulators and poles were changed, ninety degree corners were rebuilt, extra guys were added for strengthening the line and new ground cable supports were erected. The right-of-way was also cleared of underbrush. Underbrushing and clearing was also done on the lines between the Big Chute plant and Waubaushene and on a portion of the South Falls-Waubaushene tie line. Special maintenance work was also performed on No. 1 line from Waubaushene to Big Chute power house. All defective cross-arms, poles and insulators were replaced.

At Eugenia Falls power house the No. 3 turbine was completely overhauled. New cheek plates were installed, and the bronze gates were removed and replaced with the original steel gates, which had been shipped to Niagara Falls to have the worn parts built up with nickel steel at the Commission's machine shop. Slight defects on the surface of the gate shafts were turned off and new bushings made to accommodate the smaller diameter of the gate shafts. The turbine runner was also shipped to Niagara Falls to have eroded sections of the buckets built up by welding and then machined. Erosion on the various turbine parts at this plant is quite severe owing to the high head and consequent high water pressure.

The No. 1 turbine at this plant was also overhauled. The gates were built up by welding and new cheek plates, peripheral rings and wearing rings were installed to improve clearances and prevent leakage of water around the periphery of the runner into the draft tube.

A failure occurred in the winding of the 1,500-kv-a. synchronous motor used as a condenser at Eugenia power house, resulting in damage to sixteen coils by fire. The damaged coils were replaced with new coils.

At Owen Sound distributing station, a failure occurred in one of the 500-kv-a. transformers, necessitating the return of this transformer to the factory for repairs. A complete new winding of more modern design was installed in this transformer.

Wroxeter rural power district step-up transformer station was changed from single-phase to three-phase by the addition of two 75-kv-a. transformers early in November, 1930. The total transformer capacity of the station is now 225 kv-a., and service to Wroxeter rural power district is three-phase, 8,000-volts.

At Holyrood distribution station during two successive violent lightning storms, in July, two 300-kv-a. three-phase transformers were burnt out. One of these transformers was returned to the factory for repairs, and the other was repaired by the Commission's staff at Davenport transformer station in Toronto. During the first storm a direct lightning stroke hit the distributing station doing considerable damage inside the station as well as damage to the transformer.

The Hanover frequency-changer station was operated continuously throughout the year as it was required both for peak and average loads owing to machines being out of service for repairs at several of the hydro-electric plants and also owing to very low water in the storage reservoirs.

A dynamic braking system was installed on the Hanover frequency-changer set during the year. During the brake tests trouble developed on the starting winding of the 25-cycle motor which necessitated taking the set out of service while repairs were effected by welding. After the repairs to the starting winding were finished, the machines were kept out of service for a further period while various construction details were completed, such as the cleaning and painting of windings, and rewedging of armature coils on the 60-cycle generator. The machines were out of service approximately two weeks for the above mentioned repairs.

When it was ascertained that the Hanover frequency-changer set had to be taken out of service, arrangements were made to reconnect the windings in the machines at Hanover hydraulic plant from 2,300-volt delta to 4,000-volt star so that the power generated at this station could be fed on to the Hanover sub-station low-tension bus, which operates at 4,000-volts, without having to step up the voltage through a bank of transformers. This small plant had been shut down all year owing to the fact that the transformer which formerly stepped the voltage up to 22,000-volts for paralleling with the remainder of the system, had been taken to Walkerton plant for a tie line connection at the end of the fiscal year 1930. This plant, after the change in connections, was placed in service on October 7, and the Hanover frequency-changer set was closed down for repairs on the same date. It was deemed necessary to have the small Hanover plant in service at this time to assist in carrying the system peak load and for conservation of water, and the object in reconnecting the machines was two-fold, namely, to obviate the necessity of installing a bank of transformers, and also, by feeding directly onto the Hanover sub-station low-tension bus, to relieve the overload on the step-down transformer bank at this station.

Two additional 750-kv-a., 25-cycle transformers were installed at Hanover frequency-changer station, making nine of these 750-kv-a. units in all. Oil-breakers were installed on the outgoing 22,000-volt feeders to Chesley and Kincardine, replacing airbreak switches and fuses. To improve ventilation of the machines and building, air-guide vanes were installed around the frames of both machines to prevent the mixing of the discharged hot air with the incoming cool air.

At the time the properties of the Public Utilities Consolidated Corporation were purchased in September, 1930, there was an 11,400-volt tie line between the Walkerton generating station and Southampton generating station. One 6,600-volt, 200-kv-a. machine at Southampton plant in parallel with the Sauble Falls plant, supplied Wiarton, Hepworth and Sauble Beach, and the remaining machine at Southampton along with a Diesel-engine generating set, were, operating in parallel with Walkerton plant to carry Walkerton, Cargill, Pinkerton, Chepstow, some rural consumers and Port Elgin (Southampton having been carried on the Commission's system since July, 1930).

As mentioned in the last Annual Report, immediate steps were taken to allow the removal of the Diesel engine by its owners and to provide service for Port Elgin. A step-up transformer station, of 225-kv-a. capacity, was erected on the low-tension side of Southampton distributing station to provide 6,600-volt, three-phase power for the line to Port Elgin and a short tie line with a three-phase transformer was erected to tie in the Walkerton plant with the Commission's Georgian Bay system. Following this, a 22,000-volt line was constructed from Southampton junction to Southampton power house, and a step-down transformer bank of 450-kv-a. capacity was installed at this plant to protect service to Wiarton, Hepworth and Sauble Beach. The old 11,400-volt tie line between Walkerton and Southampton was then disconnected from Southampton.

Extensive reconstruction was undertaken in this district. A 22,000-volt line was built between Southampton junction and Port Elgin, and a new outdoor distributing station of 300-kv-a. capacity erected in Port Elgin and placed in service June 21, 1931. A 22,000-volt line was constructed from Derby Mills junction, just east of Tara, to Wiarton, and new outdoor distributing stations erected at Wiarton and Hepworth. The new Wiarton station is of 450-kv-a. capacity and was placed in service July 31, 1931. Hepworth station of 100-kv-a. capacity, serves Hepworth village and Sauble rural power district and was placed in service August 13, 1931, at which time Sauble Falls plant was shut down and the old lines between Southampton power house and Tolmie junction, also between Sauble Falls and Wiarton, were removed from service.

A 22,000-volt line was strung from Chesley to Paisley, replacing the former 4,000-volt line, and a new 150-kv-a. outdoor transformer station erected at Paisley. This station was placed in service September 20, and serves Paisley as well as Chepstow, Pinkerton, Cargill and rural consumers which were formerly all fed through the Walkerton transformer station.

In the Eugenia district, due to new road locations at numerous points, it was necessary to move a great number of poles to conform with the new locations, this formed the major part of the work carried out by the Eugenia district line maintenance gang in this fiscal year. During a windstorm of hurricane proportions in June, forty-one poles were blown down on the 22,000-volt line between Durham and Hanover. All available maintenance men as well as several temporary men were rushed to the job, and both circuits of this line were completely back in service three days later. It was necessary to erect eight new poles, and the remainder were lowered as they had been broken off at the ground line.

To improve telephone communication between Eugenia generating station and Markdale office, No. 9 copper conductor was strung replacing the old No. 9

iron wire. Co-operation was given to the Bell Telephone Company in the Eugenia district in an effort to determine the causes of noise on the telephone company's circuits.

At the Wasdells Falls plant, repairs to the concrete in the sluices and piers of the dam, which were under way last year, were completed early in the present fiscal year.

At Wasdells power house, on the out-going feeder to Sparrow Lake rural power district an oil circuit-breaker was installed, replacing expulsion type fuses.

On the Muskoka-Wasdells tie line three 33,000-volt, 50 ampere surge absorbers were installed at Wasdells auto-transformer station, replacing lightning arresters.

At Beaverton distributing station the transformer capacity was increased from 300 kv-a. to 600 kv-a.

At Bala No. 2 plant, owing to the defective condition of the draft tube which had given trouble since the Bala plants were purchased by the Commission, it was decided to install a new draft tube foundation ring and curb ring. This work was completed early in the year and has given entire satisfaction.

At the Bala No. 1 and No. 2 plants extensive changes were made during the year, involving the construction of a new low tension bus in No. 1 plant and changes in the outgoing and incoming feeders to give a more compact and safer arrangement of equipment; the installation of necessary meters for measuring output of both plants and the power supplied to or received from the Big Chute tie line and the power supplied to each of the outgoing feeders; the installation of a control cable and the necessary equipment between No. 1 and No. 2 plants so that No. 2 plant can be remotely controlled from No. 1 plant in so far as voltage and speed adjustments are concerned; and the installation of necessary equipment for synchronizing the unit at No. 2 plant on the bus at No. 1 plant.

Bucking transformers were installed at Bala distributing station on the Big Chute tie line to buck the voltage so that Bala plants can be successfully paralleled with the Big Chute plant and the rest of the Georgian Bay system.

Two blades were broken in the turbine runner at Bala No. 2 plant on March 22nd, and as the prices quoted on a new runner seemed rather high it was decided to attempt repairs by welding. This work was carried out and has apparently been satisfactory.

Trouble developed in the transformers on Port Carling feeder at Bala power house in August. The transformer capacity on this feeder at the time was 157.5 kv-a., and as the only transformers available for replacement were three 150-kv-a. transformers at Southampton power house, it was considered advisable to rush the whole three to Bala and install them so there would be ample capacity to take care of growth in load on this feeder for some time to come.

In order to safeguard the supply of power to the Wasdells district during tie-line faults, switches were installed north and south of the Wasdells tie line tap on the Muskoka-Waubaushene tie line.

At South Falls generating station, the No. 2 wood-stave pipe line was replaced by a new pipe of the same diameter, using treated staves which should result in a longer life for the new pipe line. The deck of the dam at this station was rebuilt, using new timber throughout. Two new runners were installed in the No. 3, 2,200-horsepower double-runner horizontal turbine to replace defective runners.

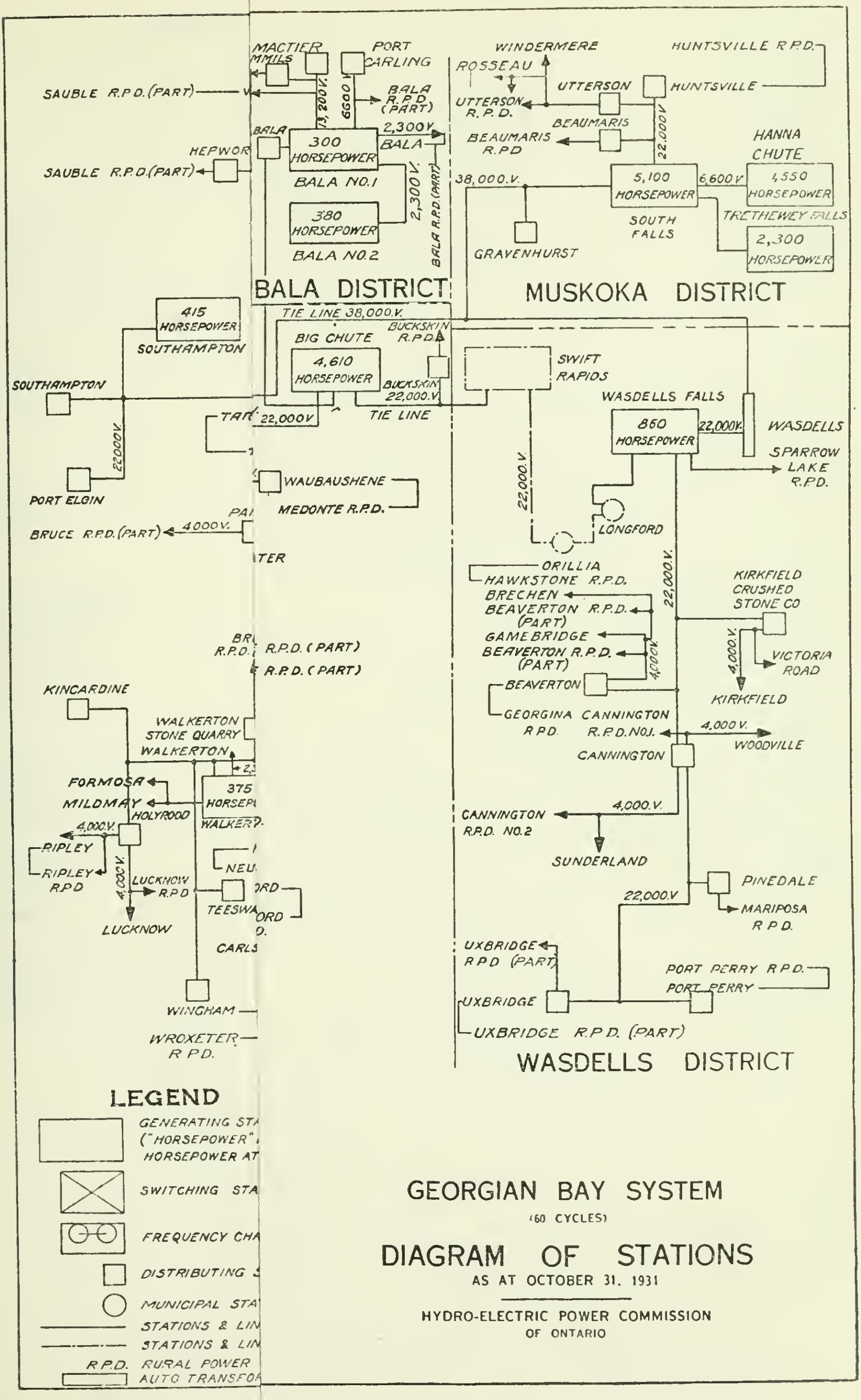
The inspection of Trethewey Falls and Hanna Chute units showed them to be in excellent condition and requiring very little mechanical maintenance work.

The Huntsville sub-station roof was completely remodelled. At Beaumaris distributing station transformer capacity was increased from 150 to 450 kv-a. to meet the increasing demand for power.

At Hollow Lake dam, a concrete facing was built on the upstream side. This dam is now in excellent condition.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Alliston	183.6	221.9	119.6	22.3	
Arthur	116.6	121.1	130.7		9.6
Barrie	1,978.4	2,285.6	2,503.4		217.8
Beaverton	229.2	269.4	295.6		26.2
Beeton	117.9	119.8	134.7		14.9
Bradford	133.5	135.3	138.2		2.9
Brechin	50.9	52.0	59.0		7.0
Camp Borden	200.0	321.7	290.0	31.7	
Cannington	152.8	172.9	155.5	17.4	
Carlsruhe and Neustadt	30.0	41.5	33.5	8.0	
Chatsworth	49.6	52.2	51.7	0.5	
Chesley	412.8	428.9	406.9	22.0	
Coldwater	274.8	277.5	290.9		13.4
Collingwood	1,613.9	1,506.8	1,458.3	48.5	
Cookstown	48.5	63.5	52.5	11.0	
Creemore	116.6	101.9	107.2		5.3
Dundalk	136.7	140.7	145.1		4.4
Durham	583.1	601.9	627.3		25.4
Elmvale	148.8	160.8	145.4	15.4	
Elmwood	44.2	52.2	63.8		11.6
Flesherton	82.6	101.6	87.0	14.6	
Grand Valley	110.7	99.2	121.1		21.9
Gravenhurst	565.7	553.0	622.0		69.0
Hanover	960.2	1,136.7	1002 7	134.0	
Holstein	17.0	17.0	20.9		3.9
Hornings Mills	8.0	8.0	8.0		
Huntsville	965.1	963.8	1,023.5		59.7
Kincardine	423.6	449.0	434.8	14.2	
Kirkfield	33.5	35.1	31.0	4.1	
Lucknow	197.6	229.2	222.5	6.7	
Markdale	150.9	139.9	163.3		23.4
Meaford	361.9	368.6	431.6		63.0
Midland	3,559.0	3,115.2	2,723.7	391.5	
Mount Forest	312.3	384.7	358.4	26.3	
Muskoka Twp	18.7	20.7	32.1		11.4


MACTIER
MMILS
PORT CARLING
13,200 V.
6600 V.
BALA R.P.D. (PART)
SAUBLE R.P.D. (PART)
BALA
HEPWOR
SAUBLE R.P.D. (PART)
300 HORSEPOWER
BALA NO. 1
2,300 V.
BALA
2,300 V.
BALA R.P.D. (PART)
380 HORSEPOWER
BALA NO. 2
BALA DISTRICT
WINDERMERE
HUNTSVILLE R.P.D.
ROSSEAU
UTTERSON
HUNTSVILLE
UTTERSON R.P.D.
BEAUMARIS
BEAUMARIS R.P.D.
22,000 V.
HANNA CHUTE
38,000 V.
5,100 HORSEPOWER
6,600 V.
1,550 HORSEPOWER
SOUTH FALLS
TRETHEWEY FALLS
GRAVENHURST
2,300 HORSEPOWER
MUSKOKA DISTRICT
415 HORSEPOWER
SOUTHAMPTON
TIE LINE 38,000 V.
BIG CHUTE
BUCKSKIN R.P.D.
4,610 HORSEPOWER
BUCKSKIN 22,000 V.
SWIFT RAPIDS
SOUTHAMPTON
22,000 V.
TIE LINE
TAR
22,000 V.
WASDELLS FALLS
860 HORSEPOWER
22,000 V.
WASDELLS
SPARROW LAKE R.P.D.
22,000 V.
PORT ELGIN
WAUBAUSHENE
MEDONTE R.P.D.
LONGFORD
PA
BRUCE R.P.D. (PART)
4,000 V.
TER
ORILLIA
HAWKSTONE R.P.D.
22,000 V.
KIRKFIELD CRUSHED STONE CO
BRECHEN
BEAVERTON R.P.D. (PART)
GAMEBRIDGE
BEAVERTON R.P.D. (PART)
4,000 V.
4,000 V.
VICTORIA ROAD
BR
R.P.D.
R.P.D. (PART)
R.P.D. (PART)
BEAVERTON
KIRKFIELD
KINCARDINE
GEORGINA R.P.D.
CANNINGTON R.P.D. NO. 1
4,000 V.
WOODVILLE
WALKERTON STONE QUARRY
CANNINGTON
WALKERTON
2,3
FORMOSA
375 HORSEP
MILDMAY
HOLYROOD
WALKERT
4,000 V.
CANNINGTON R.P.D. NO. 2
4,000 V.
RIPLEY
RIPLEY R.P.D
SUNDERLAND
NEU
4,000 V.
LUCKNOW R.P.D
TEESWA
ORD
ORD
D.
PINEDALE
22,000 V.
MARIPOSA R.P.D.
LUCKNOW
CARLS
UXBRIDGE R.P.D (PART)
PORT PERRY R.P.D.
PORT PERRY
UXBRIDGE
WINGHAM
UXBRIDGE R.P.D. (PART)
WROXETER R.P.D.
WASDELLS DISTRICT
LEGEND
GENERATING STA
("HORSEPOWER"
HORSEPOWER AT
SWITCHING STA
FREQUENCY CHA
DISTRIBUTING S
MUNICIPAL STA
STATIONS & LIN
STATIONS & LIN
R.P.D. RURAL POWER
AUTO TRANSFOR

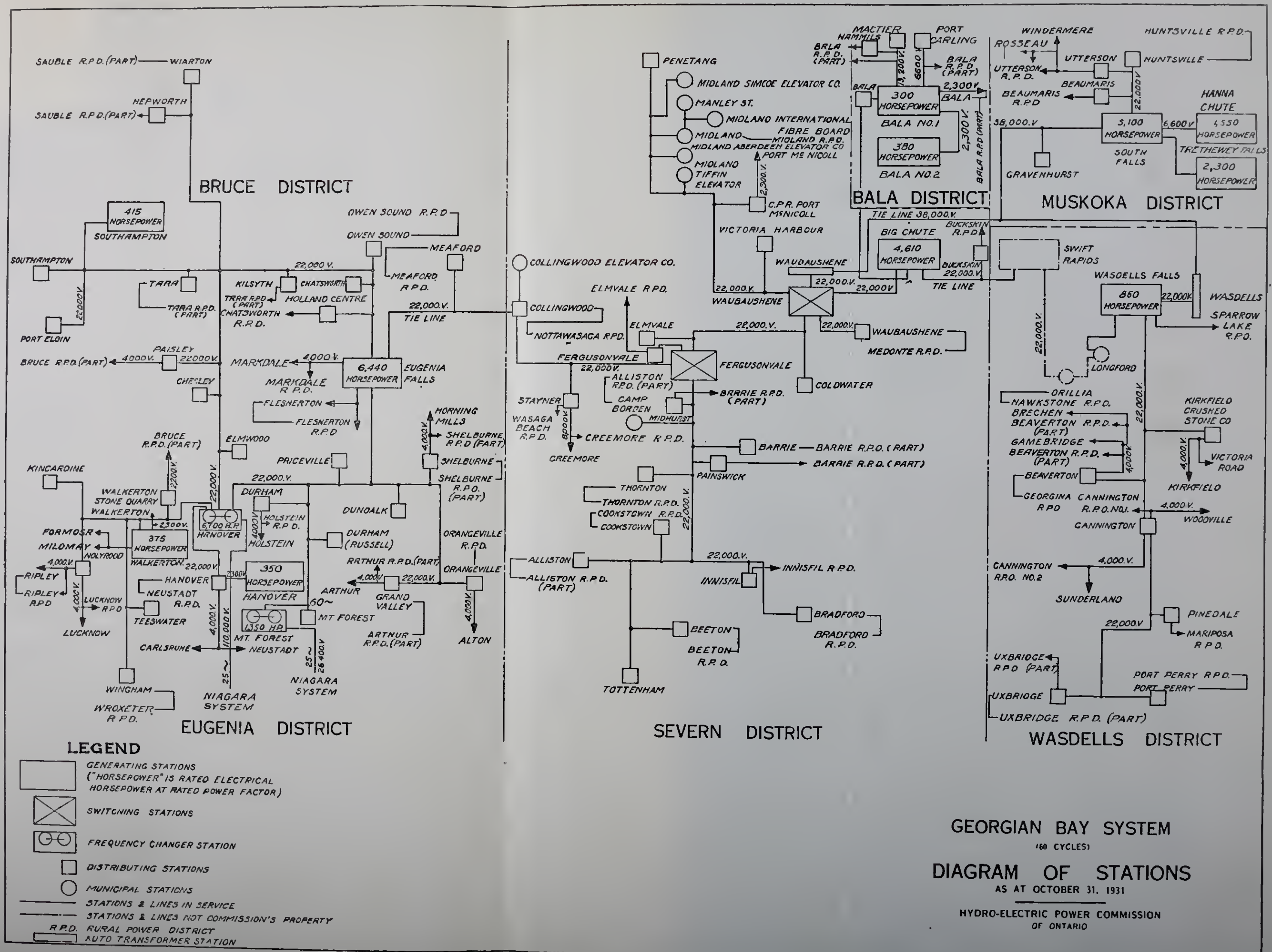
GEORGIAN BAY SYSTEM

(60 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO


BRUCE DISTRICT
EUGENIA DISTRICT
SEVERN DISTRICT
BALA DISTRICT
MUSKOKA DISTRICT
WASDELLS DISTRICT
SAUBLE R.P.D. (PART)
WIARTON
HEPWORTH
SAUBLE R.P.D. (PART)
415 HORSEPOWER SOUTHAMPTON
SOUTHAMPTON
22,000 V.
PORT ELGIN
TARA
TARA R.P.D. (PART)
KILSYTH
CHATSWORTH
TARA R.P.D. (PART)
HOLLAND CENTRE
CHATSWORTH R.P.D.
OWEN SOUND R.P.D.
OWEN SOUND
MEAFORD
MEAFORD R.P.D.
22,000 V. TIE LINE
PAISLEY
BRUCE R.P.D. (PART)
4000 V.
22000 V.
MARKDALE
MARKDALE R.P.D.
6,440 HORSEPOWER
EUGENIA FALLS
CHESLEY
FLESHERTON
FLESHERTON R.P.D.
HORNING MILLS
SHELBURNE R.P.D. (PART)
SHELBURNE
SHELBURNE R.P.D. (PART)
BRUCE R.P.D. (PART)
ELMWOOD
PRICEVILLE
KINCARDINE
WALKERTON STONE QUARRY
WALKERTON
2,300 V.
6,700 H.P. HANOVER
DURHAM
HOLSTEIN R.P.D.
HOLSTEIN
DUNDALK
DURHAM (RUSSELL)
FORMOSA
MILDMAY
HOLYROOD
375 HORSEPOWER
WALKERTON
RIPLEY
RIPLEY R.P.D.
LUCKNOW R.P.D.
LUCKNOW
TEESWATER
HANOVER
NEUSTADT R.P.D.
350 HORSEPOWER HANOVER
1,350 H.P.
MT. FOREST
MT FOREST
NEUSTADT
CARLSRUHE
110,000 V.
25~
NIAGARA SYSTEM
25~ 26,400 V.
NIAGARA SYSTEM
WINGHAM
WROXETER R.P.D.
ARTHUR R.P.D. (PART)
ARTHUR 60~
GRAND VALLEY
ARTHUR R.P.D. (PART)
ORANGEVILLE R.P.D.
ORANGEVILLE
ALTON
COLLINGWOOD ELEVATOR CO.
COLLINGWOOD
NOTTAWASAGA R.P.D.
FERGUSONVALE
STAYNER
WASAGA BEACH R.P.D.
CREEMORE R.P.D.
CREEMORE
ELMVALE R.P.D.
ELMVALE
FERGUSONVALE
ALLISTON R.P.D. (PART)
CAMP BORDEN
MIDHURST
BARRIE R.P.D. (PART)
BARRIE
BARRIE R.P.D. (PART)
PAINSWICK
THORNTON
THORNTON R.P.D.
COOKSTOWN R.P.D.
COOKSTOWN
ALLISTON
ALLISTON R.P.D. (PART)
INNISFIL R.P.D.
INNISFIL
BRADFORD
BRADFORD R.P.D.
BEETON
BEETON R.P.D.
TOTTENHAM
PENETANG
MIDLAND SIMCOE ELEVATOR CO.
MANLEY ST.
MIDLAND INTERNATIONAL FIBRE BOARD
MIDLAND
MIDLAND R.P.D.
MIDLAND ABERDEEN ELEVATOR CO
PORT MC NICOLL
MIDLAND TIFFIN ELEVATOR
C.P.R. PORT MCNICOLL
VICTORIA HARBOUR
WAUBAUSHENE
WAUBAUSHENE
WAUBAUSHENE
MEDONTE R.P.D.
COLDWATER
MACTIER
HAMMILS
PORT CARLING
BALA R.P.D. (PART)
BALA R.P.D. (PART)
BALA
300 HORSEPOWER BALA NO.1
380 HORSEPOWER BALA NO.2
BALA R.P.D. (PART)
TIE LINE 38,000 V.
BIG CHUTE 4,610 HORSEPOWER
BUCKSKIN R.P.D.
BUCKSKIN
TIE LINE
SWIFT RAPIDS
WINDERMERE
ROSSEAU
UTTERSON
UTTERSON R.P.D.
BEAUMARIS R.P.D.
BEAUMARIS
HUNTSVILLE R.P.D.
HUNTSVILLE
HANNA CHUTE 1,550 HORSEPOWER
5,100 HORSEPOWER SOUTH FALLS
TRETHEWEY FALLS 2,300 HORSEPOWER
GRAVENHURST
38,000 V.
6,600 V.
WASDELLS FALLS
860 HORSEPOWER
WASDELLS
SPARROW LAKE R.P.D.
LONGFORD
ORILLIA
HAWKSTONE R.P.D.
BRECHIN
BEAVERTON R.P.D. (PART)
GAMEBRIDGE
BEAVERTON R.P.D. (PART)
BEAVERTON
GEORGINA R.P.D.
CANNINGTON R.P.D. NO.1
CANNINGTON
KIRKFIELD CRUSHED STONE CO
VICTORIA ROAD
KIRKFIELD
WOODVILLE
CANNINGTON R.P.D. NO.2
SUNDERLAND
PINEDALE
MARIPOSA R.P.D.
UXBRIDGE R.P.D. (PART)
UXBRIDGE
UXBRIDGE R.P.D. (PART)
PORT PERRY R.P.D.
PORT PERRY
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
SWITCHING STATIONS
FREQUENCY CHANGER STATION
DISTRIBUTING STATIONS
MUNICIPAL STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R.P.D. RURAL POWER DISTRICT
AUTO TRANSFORMER STATION

GEORGIAN BAY SYSTEM

(60 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

GEORGIAN BAY SYSTEM—NEW MUNICIPALITIES

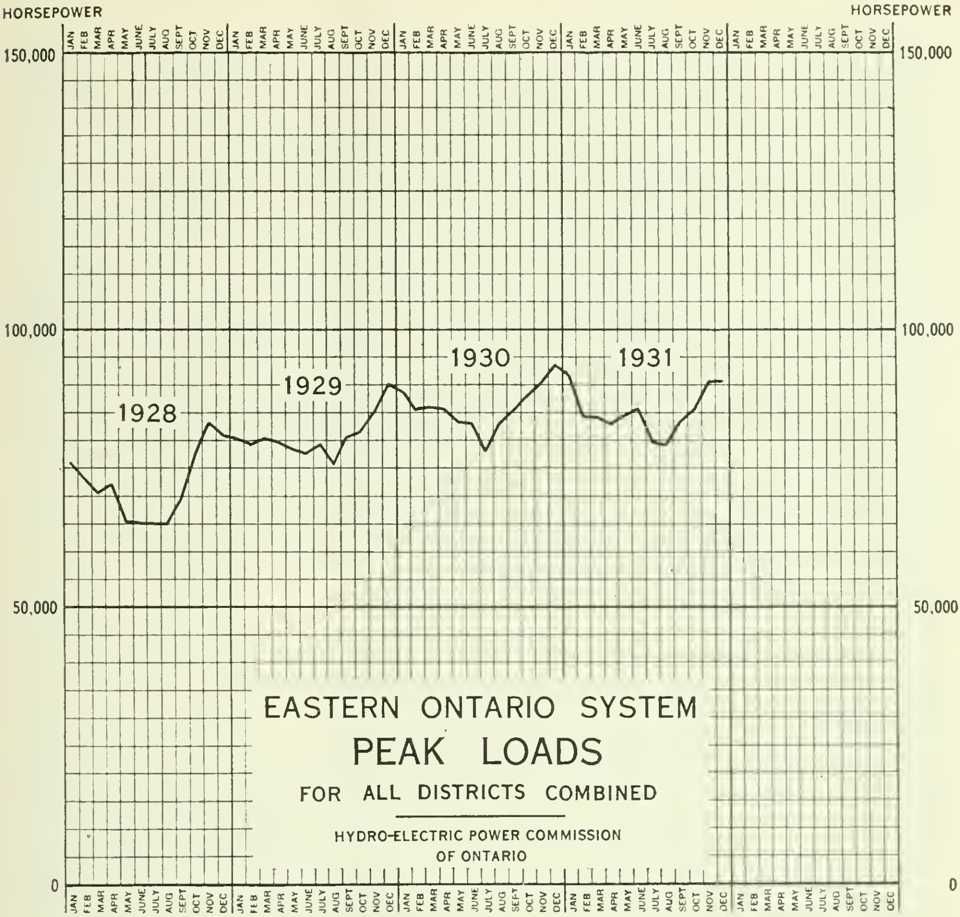
Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1931	Decrease	Increase
Orangeville	...... 522.3	576.7	550.3	26.4	....
Owen Sound	...... 3,311.0	3,183.6	3,202.4	....	18.8
Paisley	...... 118.6	138.0	113.1	24.9	....
Penetanguishene	...... 587.9	605.9	552.3	53.6	....
Port McNicoll	...... 84.4	88.4	99.0	....	10.6
Port Perry	...... 171.5	240.4	211.9	28.5	....
Priceville	...... 14.2	15.4	15.7	....	0.3
Ripley	...... 52.9	55.6	55.4	0.2	....
Shelburne	...... 198.7	233.7	235.8	....	2.1
Stayner	...... 104.0	140.8	193.7	....	52.9
Sunderland	...... 53.6	63.0	59.0	4.0	....
Tara	...... 59.3	72.7	84.1	....	11.4
Teeswater	...... 81.7	116.0	134.8	....	18.8
Thornton	...... 26.8	23.6	23.4	0.2	....
Tottenham	...... 70.2	76.8	55.7	21.1	....
Uxbridge	...... 146.2	180.9	199.8	....	18.9
Victoria Harbour	...... 73.7	71.0	64.3	6.7	....
Victoria Road	...... 10.0	11.4	10.3	1.1	....
Waubaushene	...... 37.2	40.9	52.9	....	12.0
Windermere	....	26.8	25.0	1.8	....
Wingham	...... 422.2	392.2	304.6	87.6	....
Woodville	...... 48.0	55.0	65.1	....	10.1
Bala	Nov. 1, 1930	80	121.0	....	41.0
Formosa	Nov. 1, 1930	37	45.0	....	8.0
Hepworth	Nov. 1, 1930	15	24.1	....	9.1
Mildmay	Nov. 1, 1930	67.1	63.1	4.0	....
McTier	Nov. 1, 1930	130.0	148.0	....	18.0
Port Carling	Nov. 1, 1930	75.0	126.0	....	51.0
Port Elgin	Nov. 1, 1930	23.85	195.7	87.8	....
Rosseau	July 11, 1931	30.0	30.0	....	....
Southampton	Nov. 1, 1930	272.1	233.2	38.9	....
Walkerton	Nov. 1, 1930	475.0	492.2	....	17.2
Wiarton	Nov. 1, 1930	200.0	238.3	....	38.3

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1929-1930-1931

Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Alliston		74.2	92.2		18.0
Arthur		1.2	3.2		2.0
Barrie	61.8	159.3	196.3		37.0
Beaumaris	50.9	87.1	83.1	4.0	
Beaverton		1.0	5.0		4.0
Bradford	4.3	5.4	20.0		14.6
Buckskin	17.4	17.7	12.0	5.7	
Cannington No. 1	19.0	19.0	18.0	1.0	
Cannington No. 2	28.8	21.7	23.5		1.8
Chatsworth	10.7	11.4	9.8	1.6	
Elmvale	14.4	46.2	63.2		17.0
Flesherton	3.8	5.7	5.5	0.2	
Georgina	33.5	36.2	42.2		6.0
Hawkestone		45.1	56.3		11.2
Innisfil	54.9	65.0	135.4		70.4
Mariposa	101.8	131.3	151.4		20.1
Markdale	0.5	1.6	2.0		0.4
Medonte		2.0	11.0		9.0
Nottawasaga	29.6	32.1	29.6	2.5	
Orangeville	16.3	27.8	35.5		7.7
Port Perry	64.0	78.6	103.1		24.5
Shelburne	4.3	4.9	9.6		4.7
Sparrow Lake	56.9	67.0	98.4		31.4
Tara	28.7	54.8	45.7	9.1	
Thornton		13.4	12.0	1.4	
Utterson		9.4	24.0		14.6
Uxbridge	34.4	85.8	102.5		16.7
Wasaga	43.4	45.5	76.0		30.5
Wroxeter	36.2	47.5	104.2		56.7

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1931	Decrease	Increase
Bruce	Oct. 1, 1931		50.3		
Cookstown	Dec. 11, 1930	0.8	0.8		
Creemore	Dec. 5, 1930	21.0	20.1	0.9	
Huntsville	July 25, 1931	59.6	14.0	45.6	
Midland	Nov. 1, 1930	12.0	14.0		2.0
Owen Sound	Feb. 20, 1931	5.0	8.0		3.0
Sauble	Oct. 1, 1931		8.0		



EASTERN ONTARIO SYSTEM

The load on the Eastern Ontario system has been remarkably well sustained throughout the past fiscal year, the maximum demand having shown an increase of approximately four per cent over the previous year, in spite of the prevailing depression in business and industrial activities. The load in the Ottawa, St. Lawrence and Rideau districts has, with a slight exception during January in the Rideau district, maintained a consistently higher level than in 1930, while in the Central Ontario district load conditions have been somewhat irregular, showing a slight increase in certain months and a slight decrease in others. However, considering the large amount of industrial load in proportion to the total load in this district, it is very gratifying to note that the increase in domestic load has been sufficiently high to offset to so great an extent the reduction in industrial load and maintain a demand comparing very favourably with the previous year. The load in the Madawaska district showed a large increase during the earlier months of the fiscal year and then indicated a downward tendency towards the end of the fiscal year, which was largely due to the reduced demand for power for construction purposes at the Chats Falls development.

Stream flow in the Trent river, from which the Central Ontario district obtains the greater part of its power supply, was for some time much below normal and for a period the flow was lower than it has ever been since the Commission took over the operation of this district in March, 1916. The cause will be readily apparent on referring to the graph representing rainfall on the Trent watershed. The period of subnormal rainfall began with June, 1930, and continued without interruption for a period of thirteen months until July, 1931. This dry period did not create any important reduction in stream flow until toward the end of 1930, but, as there had been no replenishment of storage or ground water before the freeze-up, stream flow remained unseasonably low all winter. Following this, precipitation was slight and the spring freshet flow abnormally low, resulting in the Trent System storage being very much below normal at the end of the month of May, at which time it is usually at its maximum. It therefore became necessary to guard against the possibility of a power shortage in the Central Ontario district. The most feasible way of obtaining additional power was from the Gatineau supply, and this required additional transformer capacity. Accordingly plans were made and work started immediately on the construction of a new 15,000-kv-a., 110,000-volt transformer station near Kingston. Three 5,000-kv-a. transformers and the regulating transformer were transferred from Smiths Falls high-tension transformer station, and the new station was placed in service on July 12.

The line extending between Smiths Falls and Kingston, while it was constructed for 110,000-volt operation, was formerly operated at 44,000 volts and fed power directly into the Central Ontario District high-tension line network at the Kingston high-tension switching station. After the change, power was fed at 110,000-volts over this line to the new station and stepped down at that point to 44,000 volts for supply to the Central Ontario district, thereby reducing transmission losses and improving voltage and operating stability.

The 5,000-kv.a. transformers which were removed from Smiths Falls transformer station, were replaced by a three-phase bank made up by using the spare 5,000-kv-a. transformer for one phase, and two 1,250-kv-a. transformers connected in parallel on each of the other two phases, giving a capacity of 7,500-kv-a.

Early in September owing to decreasing stream flow and increasing load, not only on the Central Ontario district but on other parts of the system, it became necessary to order an additional supply of 4,000 horsepower from the Gatineau Power Company. This was increased by 2,000 horsepower on September 14, making a total of 6,000 horsepower, the full block due in accordance with the terms of the contract on October 1. The system load, however, continued to increase and this, together with a further reduction in stream flow, made it necessary to further augment the system power supply. Accordingly, arrangements were made with the Cedars Rapids Transmission Company for a temporary supply of 3,000 horsepower for one month. During this period stream flow conditions improved in the Trent river, and the above temporary supply was discontinued on October 17.

During the above period such power as became available during the hours when load was light, was supplied to the Rideau district in order to conserve in storage at High Falls as much water as possible. This water then became

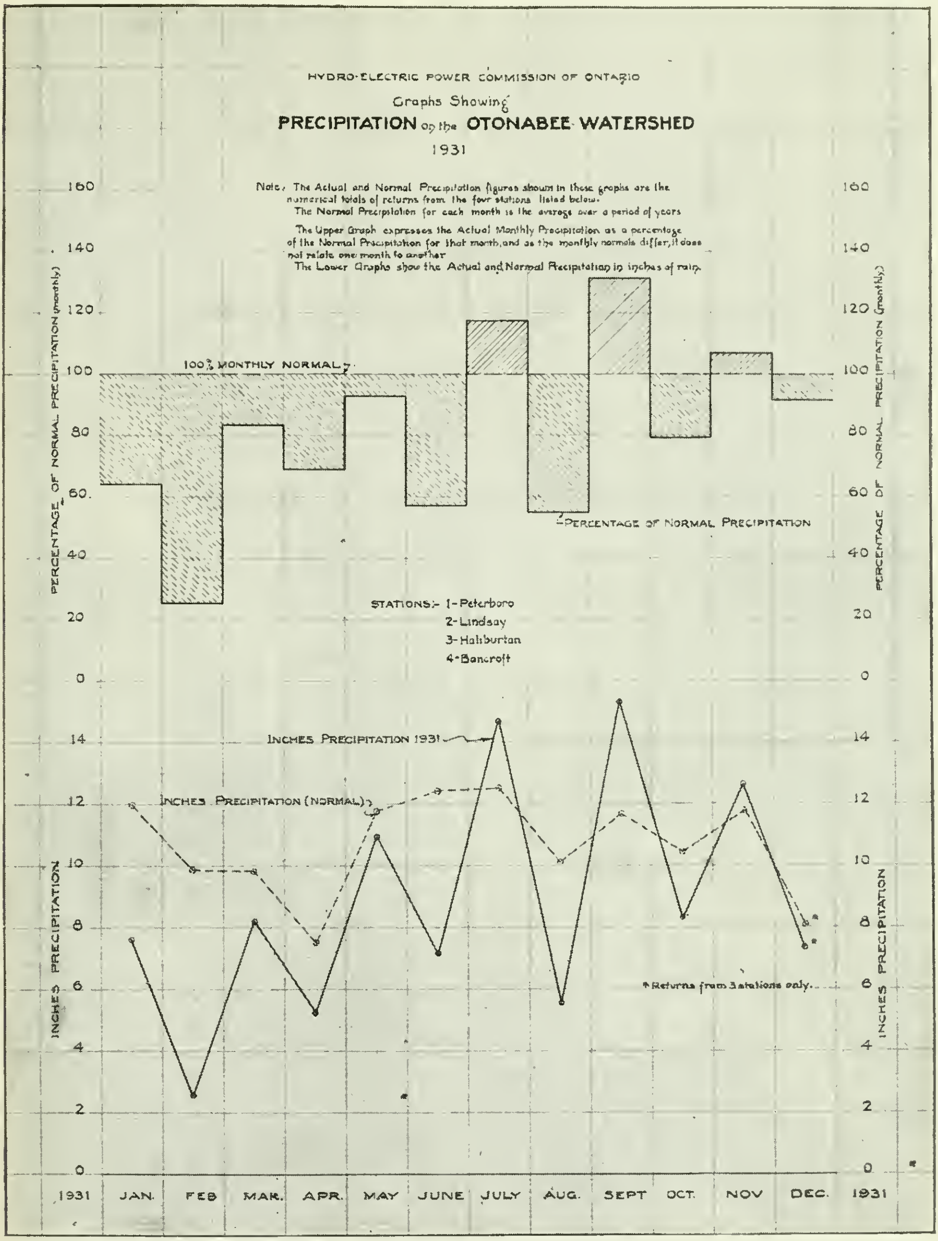


PLATE A—PRECIPITATION DATA—1931

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton.

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain.

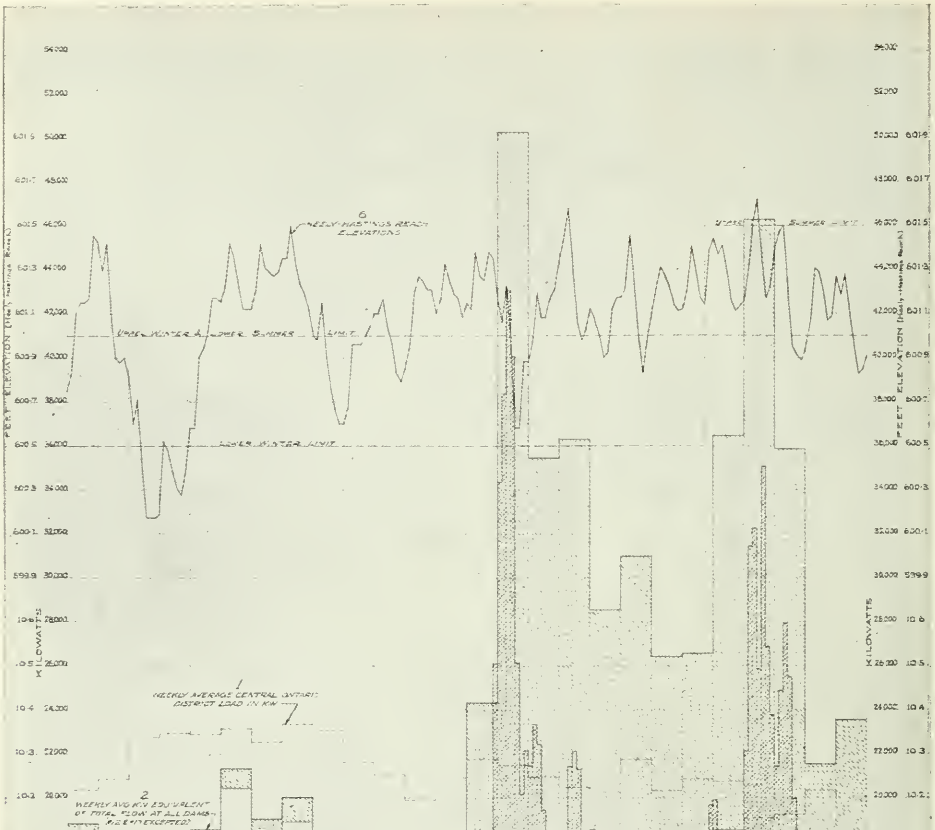


PLATE B1—GENERAL OPERATING DATA

December 19, 1930, to June 19, 1931

GRAPH No. 1—System average weekly load in kilowatts, which includes power purchased from the Gatineau Power Company and plants 12 and 17.

GRAPH No. 1a—Weekly average load in kilowatts supplied by H.E.P.C. plants on the Trent and Otonabee rivers.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams, exclusive of 12 and 17. This equals the weekly average load supplied by H.E.P.C. plants only, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.

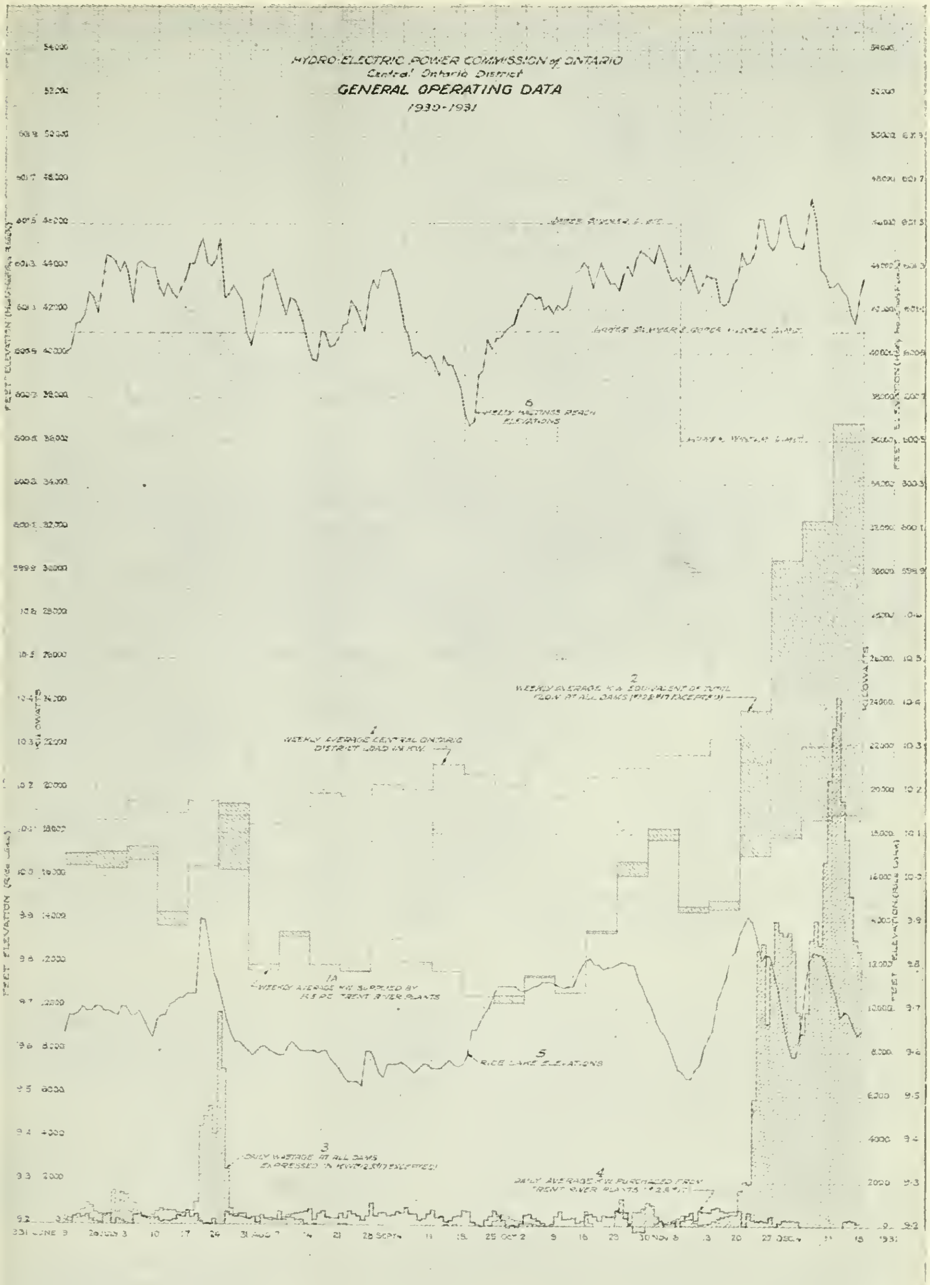


PLATE B2—GENERAL OPERATING DATA

June 19, 1931 to December 18, 1931

GRAPH No. 3— Average daily wastage expressed in kilowatts at all dams, exclusive of dams 12 and 17. In the weekly aggregate the area under this graph equals the wastage represented by the hatched area between curves 2 and 1a.

GRAPH No. 4—Average daily power purchased from plants 12 and 17 in kilowatts.

GRAPH No. 5—Midnight elevations of Rice lake.

GRAPH No.6—Midnight elevations of Heely-Hastings reach.

available for generation of power during the most critical periods on other parts of the system.

In the Madawaska district the effects of the very dry summer of 1930 caused a serious depletion of storage in the Madawaska watershed in the early part of December, 1930. As noted in the previous issue of this Report, there is as yet no physical connection between this district and the rest of the system. However, satisfactory arrangements were made with the Gatineau Power company for a temporary supply of approximately 1,000 horsepower. This power was fed into the 33,000-volt line near Fitzroy Harbor through a temporary transformer station which was built on Victoria Island.

From the foregoing synopsis of operation it will readily be evident that a serious power shortage undoubtedly would have been experienced had Gatineau power not been available.

During the year the usual program of station and line maintenance work was carried out.

At Ottawa transformer station the second 110,000-volt circuit, which is a direct line from the Gatineau Power Company's transformer station at Valtetreau, was placed in service on November 23, 1930. This circuit, together with the tap from the Valtetreau-Smiths Falls 110,000-volt line, assures a reliable supply of Gatineau power for the Ottawa district.

At Trenton a new 750-kv-a. outdoor transformer station was placed in service on November 2, 1930.

At Napanee a new 300-kv-a. transformer station was built for the purpose of supplying power into the rural power district. This station was placed in service on December 10, 1930.

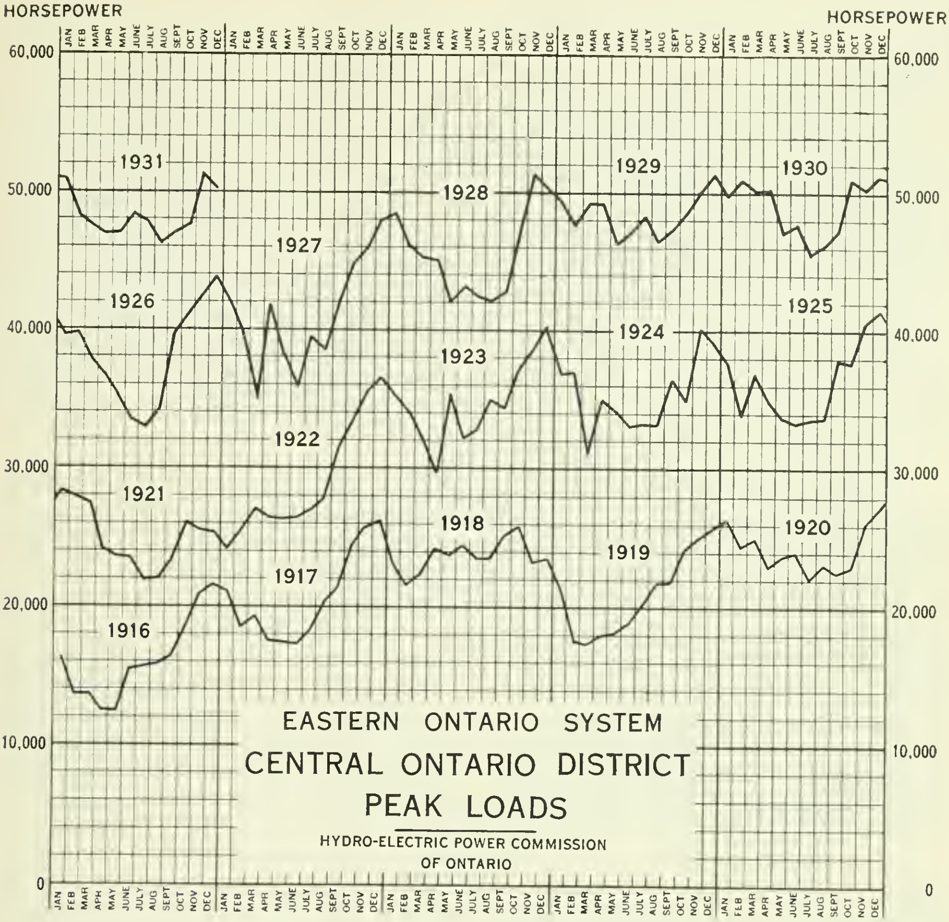
At Forfar distributing station the 100-kv-a. single-phase transformer was replaced by two 500-kv-a. single-phase transformers. This station was originally supplied at 44,000 volts, but was changed to 110,000 volts to conform with the change in the voltage on the line extending between Smiths Falls and Kingston from which this station is supplied.

Generating Stations

At Sidney, plant No. C2, no extensive maintenance work was necessary. The lower guide bearing of one turbine was rebabbitted. A considerable amount of grading was done around the station site, and approximately 80 acres of land adjoining the plant were reforested.

At Frankford, plant No. C5, the governors were all overhauled, the forebay was unwatered and the racks cleaned. The turbines were all inspected and defective gates were replaced. The station ground bus was extended out of the plant and connected to the rural feeder ground.

At Meyersburg, plant No. C8, an inspection was made of the turbines and hydraulic equipment, but no extensive maintenance work was found necessary. The upper guide bearings on two generators were replaced, and the defective bearings rebabbitted. Forty-one damaged wedges were replaced in the armature of the direct-connected exciter of one unit. All the high-tension oil-breakers were overhauled. Five defective insulators were replaced on the high-tension bus structure. The floor of the generator room and the bases of all the generators were painted.



EASTERN ONTARIO SYSTEM
CENTRAL ONTARIO DISTRICT
PEAK LOADS

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

At Hagues Reach, plant No. C9, the forebay was unwatered and the racks were cleaned, all turbines were inspected. A new speed ring was installed in one turbine. The runner of this turbine was eroded but satisfactory repairs were made by welding. The governors were all inspected. A new set of gears and drive chain were installed in one governor pump. As a safety measure a railing was installed on both sides of the walk on top of the wall between the forebay and the river. Five defective insulators were replaced on the high-tension bus structure. The collector rings of all units and the commutators of all exciters were ground. The thrust bearing of one generator which had been overheated was overhauled. A defective high-tension bushing was replaced on one of the oil-breakers. All high-tension oil-breakers were overhauled.

As mentioned in previous Annual Reports, the above two plants are of the automatic supervisory remote-controlled type, and it is of interest to note that they have operated very satisfactorily throughout the year. They have now been in service for more than six years.

At Ranney falls, plant No. C10, the forebay was unwatered and the racks cleaned. The turbines were inspected and adjustments were made to the lignum vitae bearing. New copper ground plates were installed in the river bed and connected to the high-tension transformer neutral ground. All low-tension oil-breakers and one high-tension oil-breaker were overhauled.

At Seymour, plant No. C11, the forebay was unwatered and the racks were cleaned. The head-gate was wire brushed and painted. All five turbines were overhauled. Defective wedges in the crown gears were replaced. A defective bearing on the countershaft of one unit was rebabbitted. All governors were inspected and painted. One governor was completely overhauled. The governor of the turbine exciter was overhauled. Extensive painting was carried out at this plant, including generator-room floor, walls and ceiling and all steel work, basement floor, walls and ceiling and the walls and ceiling of two transformer pockets. All generators, exciters and two transformer casings were also painted. A new voltage-control rheostat was installed on the regulator. Thirty-four defective coils were replaced in one of the generators. The high-tension oil-breakers were overhauled.

At Heely Falls, plant No. C14, all turbines were unwatered and inspected and necessary repairs made to the glands and stuffing boxes. The screen on the Pelton wheel of one unit was cleaned. The rusted sections of two penstocks were wire brushed and painted. The relief valves of all units were overhauled. To facilitate the raising and lowering of the racks in front of the units, steel guides were bolted to the sides of the racks. The stairs, railings and floors of the high-tension and low-tension galleries were painted. The high-tension and low-tension oil-breakers were overhauled. New indicating meters were installed in the high-tension relay circuits. New voltmeter and synchronizing jacks were installed, and extensive changes made to the wiring of the benchboard. A fire-fighting pump was installed and a four-inch water connection was made between the pump house and power house.

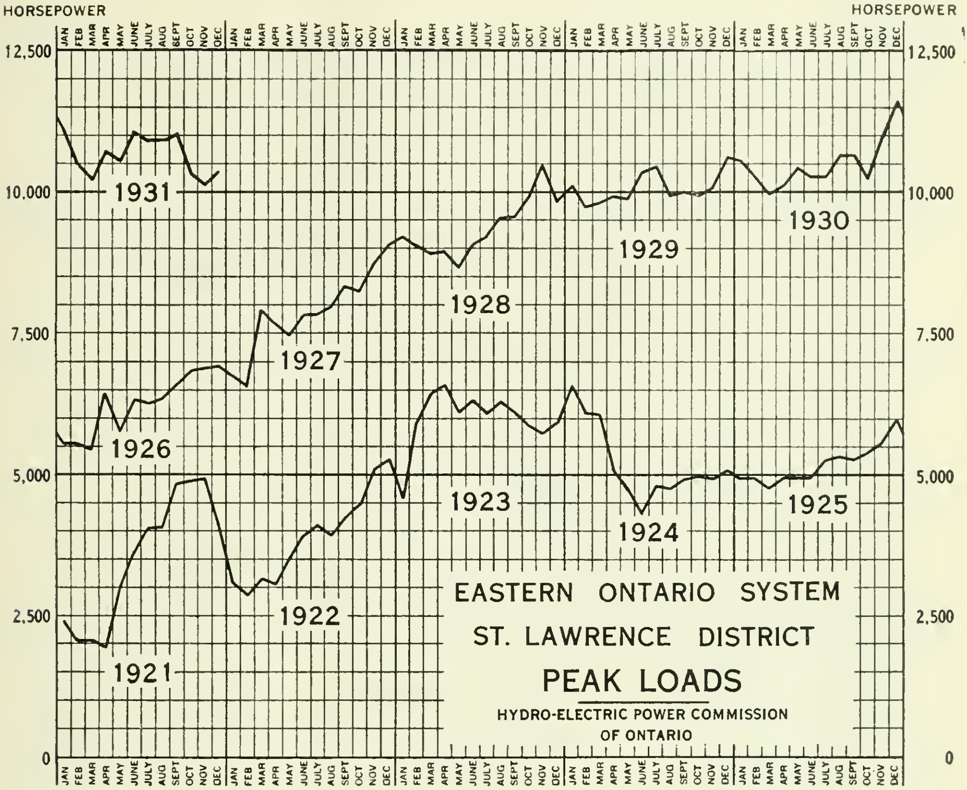
At Auburn, plant No. C18, the forebay was unwatered and the racks cleaned. Turbines were inspected and broken gates were replaced where necessary. New pressure tanks were installed on all governors. The governor pumps were all overhauled. The power house floors were painted.

At Fenelon Falls, plant No. C30, the turbines were all inspected but no extensive maintenance work was necessary. A new 11,000-volt oil-breaker, with relay equipment, was installed. The collector rings on the generators were replaced. A large number of defective bars were replaced in the armature of one of the generators which failed in service.

At Calabogie generating station on the Madawaska river, a voltage-adjusting rheostat was installed on the regulator. The control solenoids in the graphic wattmeter and voltmeter were changed from direct current to 110-volt alternating current. Metering equipment was installed on the Calabogie-Barryvale low-tension feeder.

At Galetta generating station on the Mississippi river, the turbines were overhauled, and a number of defective gates were replaced. Metering equipment was installed on the Carp and Fitzroy Harbour low-tension feeders.

At High Falls generating station on the Mississippi river, no extensive maintenance work was necessary. The high-tension electrolytic lightning

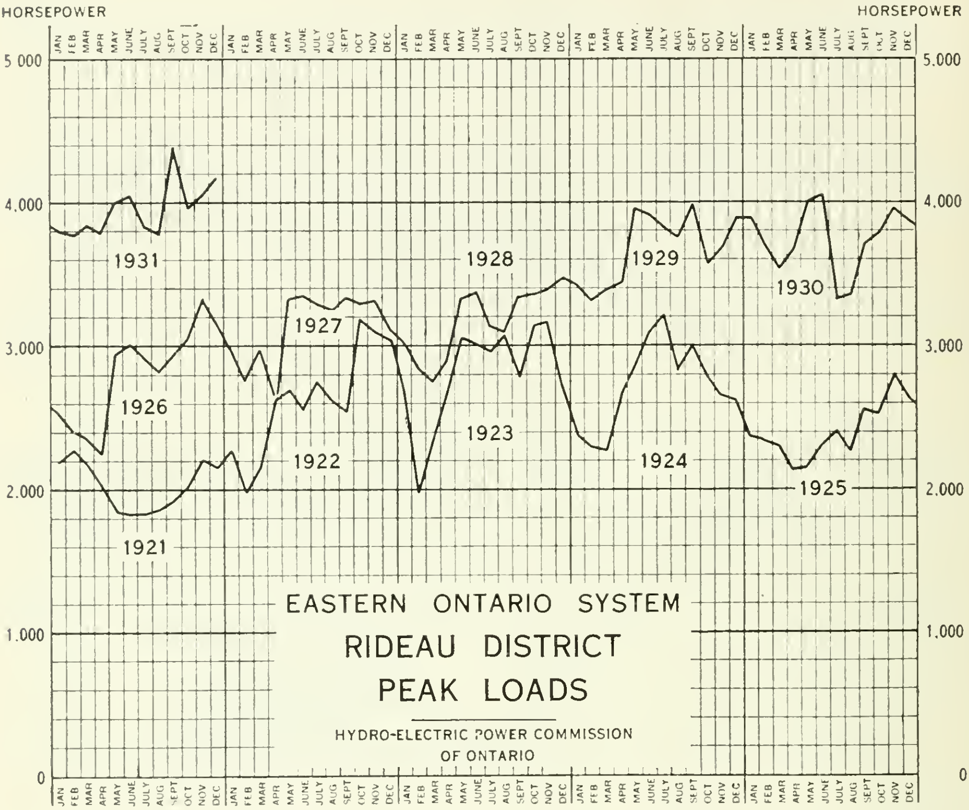

EASTERN ONTARIO SYSTEM
ST. LAWRENCE DISTRICT
PEAK LOADS
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

arresters and the high-tension and low-tension oil-breakers were overhauled. A large amount of weeds and trash had to be removed from the forebay and racks. Approximately four thousand seedling trees were planted on the Commission's property in this district.

Municipal, Distributing and Switching Stations

At Belleville No. 1 distributing station a number of improvements were made. All the obsolete low-tension equipment was replaced with iron-clad equipment together with meters and relays. A gravity balance-type graphic wattmeter and a r-kv-a. meter were installed. New indoor-type 44,000-volt lightning arresters were also installed. A defective bushing was replaced on the high-tension oil-breaker. An addition was built to the old sub-station. A sewer was installed from the station and from the operator's cottage to the main sewer. A new roof was built over the old section of the sub-station.

At Belleville switching station the remaining three obsolete rotor-type disconnecting switches were replaced by new double-break disconnecting switches. A new sixty-cell 120-volt storage battery was installed. The 44,000-volt current transformers on five of the high-tension lines were rebuilt. All the high-tension oil-breakers were overhauled.

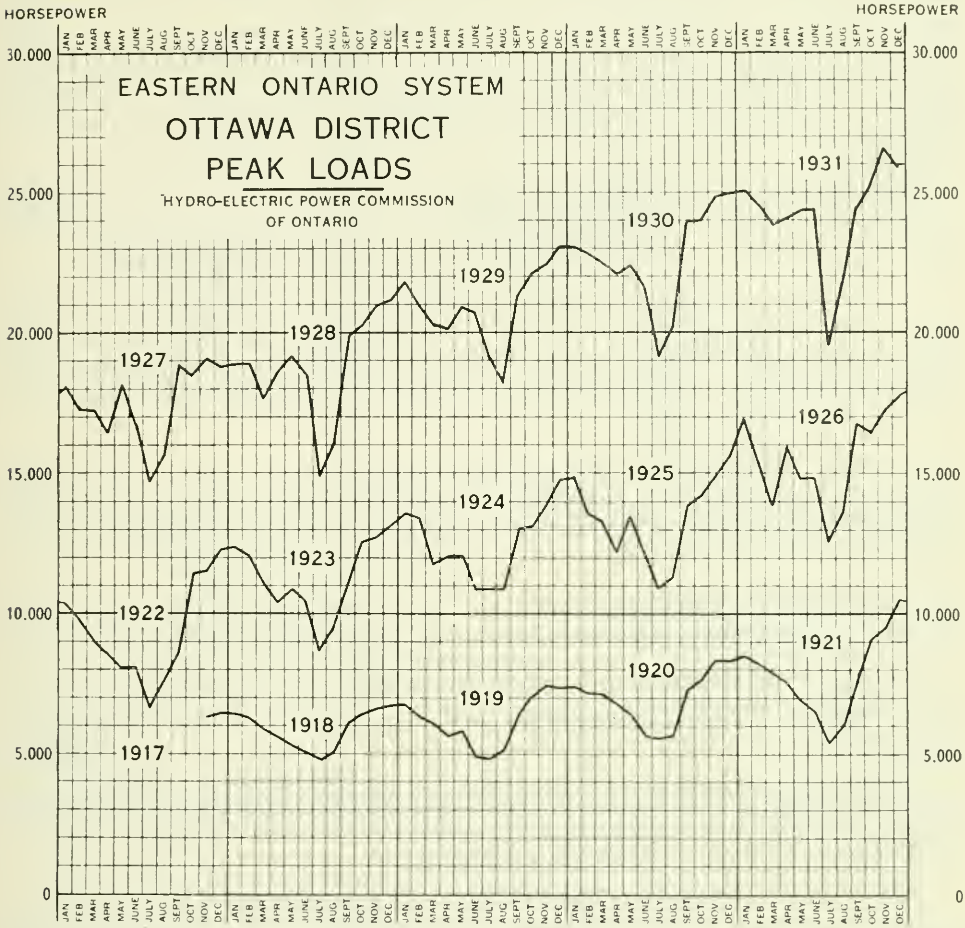

EASTERN ONTARIO SYSTEM
RIDEAU DISTRICT
PEAK LOADS
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

At Cobourg the 300 kv-a. transformer was replaced with a 750 kv-a. transformer. The 44,000-volt electrolytic lightning arresters were overhauled. The water-cooling tank was replaced on the transformer water-cooling tower. The station floor, doors, etc., were painted.

At Colborne a third 100 kv-a. transformer was installed and the station converted for 3-phase operation. The low-tension voltage was increased to 4,160 volts.

At Kingston distributing station the 44,000-volt electrolytic lightning arresters were overhauled. The oil was changed in two of the 750 kv-a. transformers.

At Lindsay distributing station one of the 750 kv-a. transformers failed in service. This transformer was repaired and a new water-cooling coil was installed. The high-tension and low-tension electrolytic lightning arresters were overhauled. The high-tension oil-breaker was also overhauled. The appearance of the station was improved by painting.



At Lehigh all the high-tension and low-tension equipment was thoroughly cleaned. The oil-breakers were all overhauled.

At Millbrook distributing station an improved type of metering equipment was installed. Repairs were made to the large doors, and the station appearance was improved by painting.

At Napanee distributing station the station site was considerably improved by grading. A new septic tank was installed and the old well was thoroughly cleaned out.

At Norwood distributing station the oil was changed in the 300 kv-a. transformer. The 44,000-volt air-break switch was overhauled. A new feeder panel, complete with oil circuit-breaker, was installed in connection with the power supply to Hastings. A 24-volt storage battery was also installed.

At Oshawa No. 1 transformer station one of the 3,000 kv-a. transformers failed in service, was returned to the manufacturer for repairs, and reinstalled on its return. The high-tension and low-tension oil-breakers and the high-tension lightning arresters were all overhauled. Three defective 2-kw. station service transformers were replaced by three 5-kw. transformers. The station property was improved by grading and seeding. A considerable amount of painting was also carried out at this station both indoor and outdoor.

At Oshawa No. 2 transformer station a new switching platform was built in order to facilitate work when operating the high-tension transformer disconnecting switches. The 44,000-volt lightning arresters were painted.

At Oshawa condenser station the collector rings of the 5,000 kv-a. condenser were ground on two occasions. The armature of the starting motor of the 1,000 kv-a. condenser was completely rewound. The condenser-bus synchronizing potential transformers were relocated. The station floor, doors and window sash were painted.

At Port Hope distributing station a graphic r-kv-a. meter and testing equipment were installed. A 1,000-ohm resistance was installed on the graphic wattmeter contacts in order to help in eliminating radio interference in this district.

At Port Hope switching station the high-tension oil-breakers were overhauled. Ground relays were installed on the 44,000-volt oil-breakers.

At Picton distributing station a defective 300 kv-a. transformer was repaired. Two defective potential transformers and one defective current transformer were replaced. A defective graphic wattmeter was repaired and reinstalled.

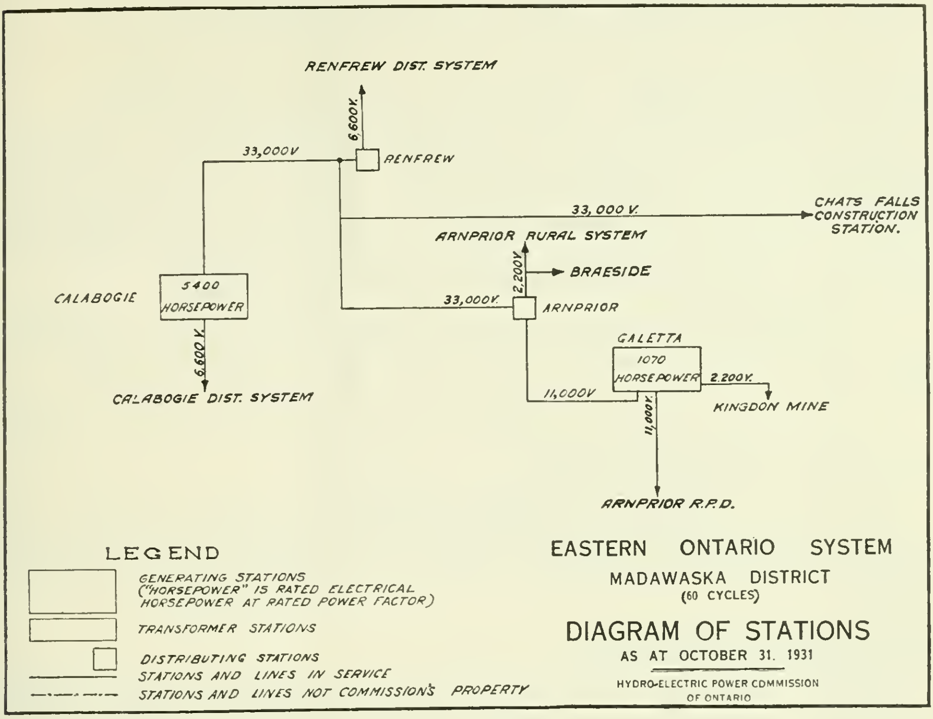
At Sulphide distributing station the low-tension oil-breakers were overhauled. A defective 44,000-volt choke-coil insulator was replaced. The oil was changed in the three 100 kv-a. transformers.

At Stirling municipal station extensive changes were made to the low-tension equipment. The rural feeder was connected to the low-tension bus through an oil-breaker. Metering and testing equipment was installed and the instrument transformers were rearranged.

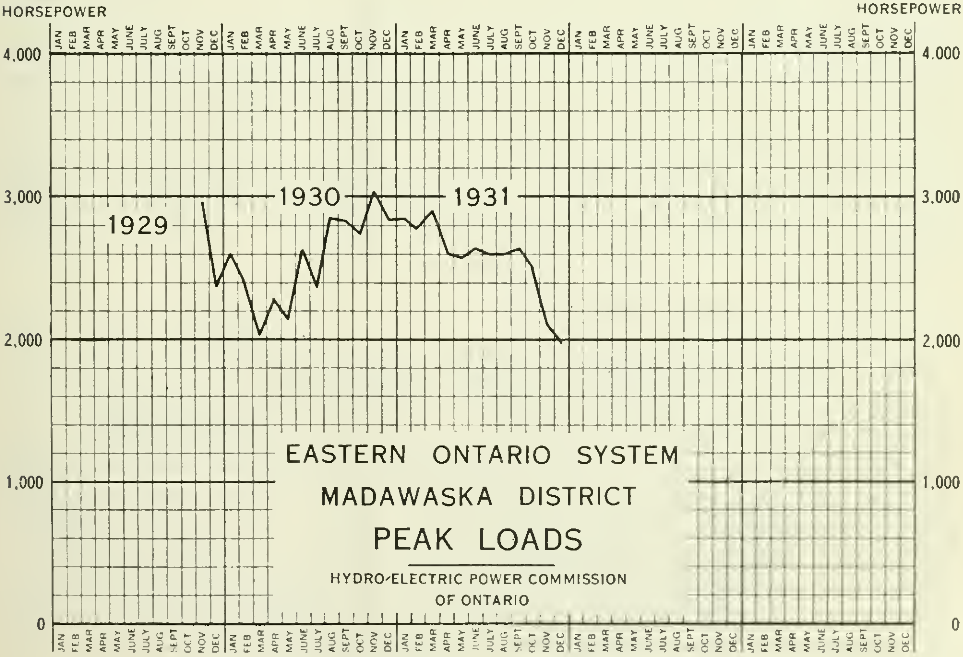
At Sidney terminal station all the high-tension and low-tension oil-breakers and the high-tension lightning arresters were overhauled. The potential supply to the meters and relays was rearranged.

At Warkworth distributing station the 50 kv-a. transformer failed in service and was replaced by a 100 kv-a. transformer. Two defective insulators were replaced on the high-tension structure.

At Alexandria the 300 kv-a. transformer failed in service and was returned to the manufacturer where it was completely rebuilt. This transformer was replaced by a 300 kv-a. transformer which had been held in reserve at Smiths Falls. Several minor improvements were carried out at this station. The transformer platform was completely rebuilt. A new ground conductor was installed. New and additional cross-arms were erected to support the high-tension leads. The station floor, windows, sash, etc., were painted.


RENFREW DIST. SYSTEM
6,600 V.
33,000 V
RENFREW
33,000 V.
CHATS FALLS CONSTRUCTION STATION.
ARNPRIOR RURAL SYSTEM
2,200 V.
BRAESIDE
CALABOGIE
5400 HORSEPOWER
33,000 V.
ARNPRIOR
6,600 V.
CALABOGIE DIST. SYSTEM
GALETTA
1070 HORSEPOWER
2,200 V.
11,000 V
11,000 V.
KINGDON MINE
ARNPRIOR R.P.D.
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
DISTRIBUTING STATIONS
STATIONS AND LINES IN SERVICE
STATIONS AND LINES NOT COMMISSION'S PROPERTY

EASTERN ONTARIO SYSTEM
MADAWASKA DISTRICT
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1931
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO



EASTERN ONTARIO SYSTEM
MADAWASKA DISTRICT
PEAK LOADS
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

At Apple Hill the high-tension switch structures were straightened up and re-guyed. The 44,000-volt air-break switch was completely reinsulated.

At Chesterville the low-tension lightning arresters were replaced with an improved type of arrester. Repairs were made to the station property.

At Cornwall the high-tension oil-breakers were overhauled. A defective 110,000-volt entrance bushing was replaced. New synchronizing equipment was installed. The transformer water-cooling system and pumps were thoroughly overhauled. The station site was further improved by grading and seeding and by painting the operators' cottages and boundary fences. As a safety measure, additional fire-fighting equipment was installed.

At the Howard Smith Paper Company's transformer station a permanent bus tie was installed between the old and the new low-tension bus structures. Minor repairs were made to the roof and to the outside station structure.

At the Lower Lakes Terminal Elevator, located near Prescott, a 44,000-volt air-break switch was installed.

At Lyn two 100 kv-a. transformers failed in service during the year. The first failure was replaced by a transformer in reserve elsewhere on the system, and the second by the transformer which had first burned out and had been repaired.

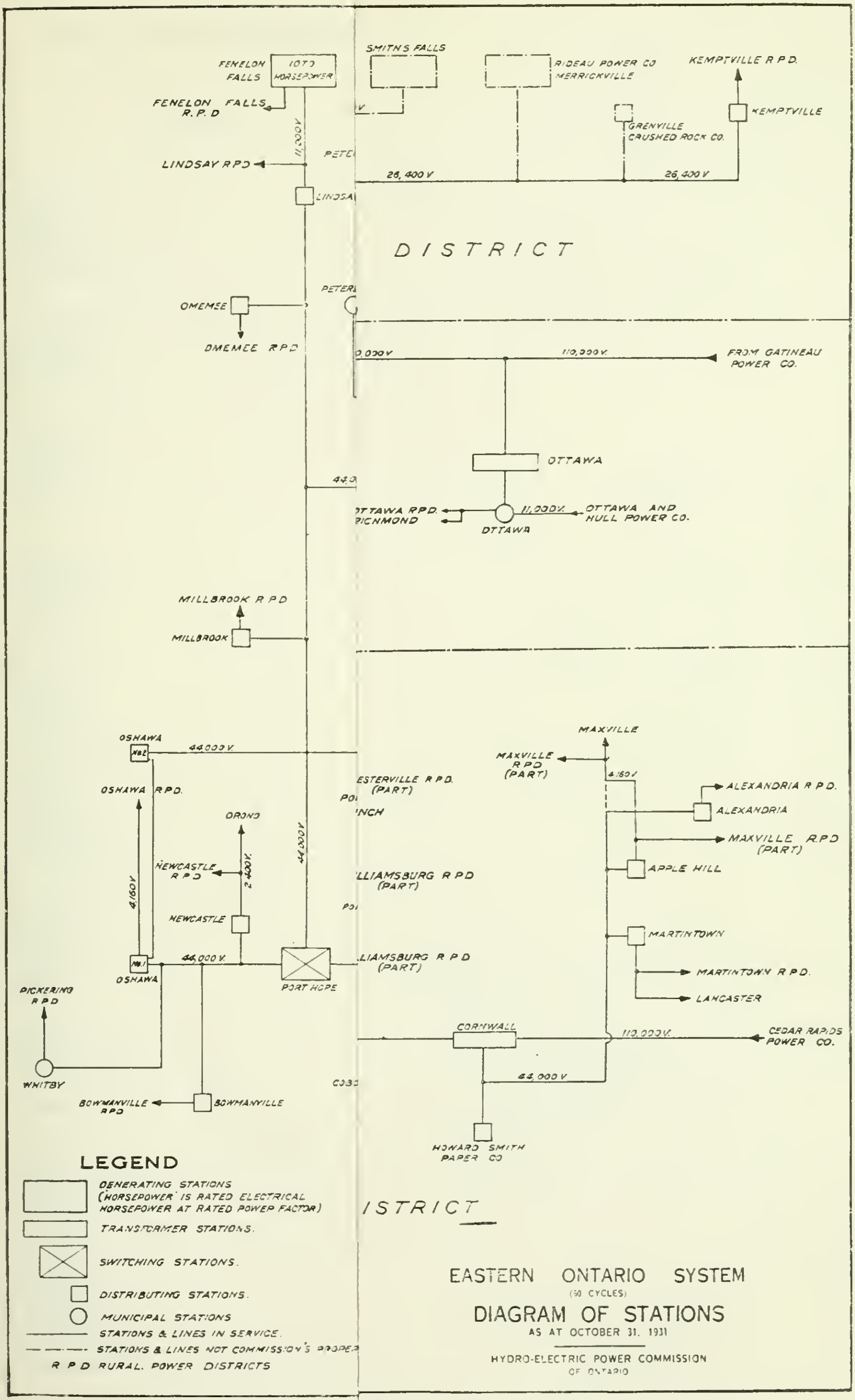
High-voltage Transmission Lines

Work in connection with the inspection and maintenance of high-voltage transmission lines was actively carried out during the year. Approximately 9,000 poles were inspected, of which 800 were found defective at the ground line and were stubbed. Over 20,000 suspension-type insulator units were tested and it was found that only 390 had to be replaced. Approximately 41,000 pin-type insulators were inspected, and 1,600 were found defective and were replaced. A considerable number of poles were straightened in the various high-tension line sections. An active program of tree trimming was carried out by the Commission's Forestry Branch in the Central Ontario and St. Lawrence districts. Two sets of 44,000-volt disconnecting switches were installed for sectionalizing purposes at the junction of the line to the Kingston elevators. Extensions were made to the low-tension lines in several of the rural power districts.

Repair Shops and Testing

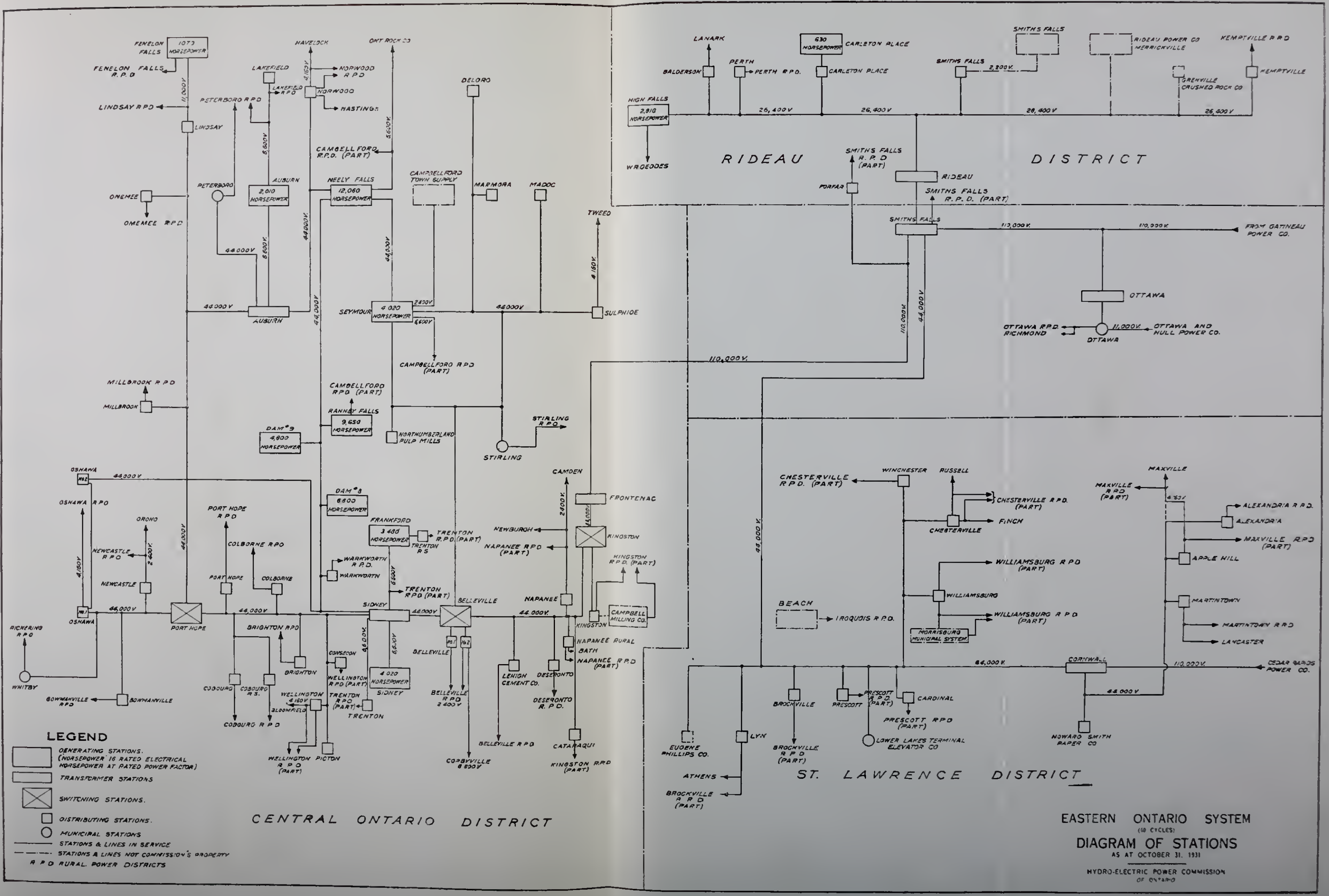
The Belleville machine and meter repair shop has continued the usual programme of testing and repairing the various types of meters. A certain amount of work was also carried out in connection with repairs and replacement parts for hydraulic and electrical apparatus.

The meter department, which is responsible for the maintenance of all metering and relay equipment on this system, carried out a series of special ground resistance tests at a number of stations with a view to improving the high-tension neutral and high-tension arrester grounds. This department is available on request to any of the municipalities wishing electrical measurements made or technical problems investigated. During the past year the meter engineers of this section have carried out a number of tests for various municipalities and private companies connected to this system.


FENELON FALLS
1070 HORSEPOWER
FENELON FALLS R.P.D
11,000 V
LINDSAY R P D
LINDSAY
PETE
SMITHS FALLS
V
RIDEAU POWER CO MERRICKVILLE
KEMPTVILLE R P D.
KEMPTVILLE
GRENVILLE CRUSHED ROCK CO.
26,400 V
26,400 V
DISTRICT
PETER
OMEMEE
OMEMEE R P D
0,000 V
110,000 V.
FROM GATINEAU POWER CO.
OTTAWA
44,0
TTAWA R.P.D.
ICHMOND
11,000 V.
OTTAWA AND HULL POWER CO.
OTTAWA
MILLBROOK R P D
MILLBROOK
OSHAWA
No.2
44,000 V.
OSHAWA R.P.D.
ORONO
NEWCASTLE R P D
2,400 V.
4,160 V
44,000 V
NEWCASTLE
No.1
OSHAWA
44,000 V.
PORT HOPE
PICKERING R P D
WHITBY
BOWMANVILLE R P D
BOWMANVILLE
ESTERVILLE R P D. (PART)
PO
NCH
LLIAMSBURG R P D (PART)
PO
LLIAMSBURG R P D (PART)
MAXVILLE
MAXVILLE R P D (PART)
4,160 V
ALEXANDRIA R P D.
ALEXANDRIA
MAXVILLE R.P.D (PART)
APPLE HILL
MARTINTOWN
MARTINTOWN R P D.
LANCASTER
CORNWALL
110,000 V.
CEDAR RAPIDS POWER CO.
44,000 V
CO3
HOWARD SMITH PAPER CO
ISTRICT
LEGEND
GENERATING STATIONS (HORSEPOWER IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS.
SWITCHING STATIONS.
DISTRIBUTING STATIONS.
MUNICIPAL STATIONS
STATIONS & LINES IN SERVICE.
STATIONS & LINES NOT COMMISSION'S PROPE
R P D RURAL POWER DISTRICTS

EASTERN ONTARIO SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO


FENELON FALLS
1070 HORSEPOWER
FENELON FALLS R.P.D.
11,000 V
LINDSAY R P D
LINDSAY
HAVELOCK
ONT ROCK CO
LAKEFIELD
LAKEFIELD R P D
4,160 V
NORWOOD R P D
NORWOOD
HASTINGS
PETERBORO R P D
6,600 V
5,600 V
CAMBELLFORD R.P.D. (PART)
DELORO
OMEMEE
OMEMEE R P D
PETERBORO
AUBURN
2,010 HORSEPOWER
NEELY FALLS
12,060 HORSEPOWER
CAMPBELLFORD TOWN SUPPLY
MARMORA
MADOC
TWEED
44,000 V
6,600 V
44,000 V
44,000 V
44,000 V
4,160 V
AUBURN
SEYMOUR
4 020 HORSEPOWER
2400 V
6,600 V
SULPHIDE
CAMPBELLFORD R P D (PART)
110,000 V.
MILLBROOK R P D
MILLBROOK
CAMBELLFORD R P D (PART)
RANNEY FALLS
9,650 HORSEPOWER
DAM #9
4,800 HORSEPOWER
NORTHUMBERLAND PULP MILLS
STIRLING
STIRLING R P D
CAMDEN
OSHAWA
No. 2
44,000 V
OSHAWA R P D
ORONO
PORT HOPE R P D
DAM #8
6800 HORSEPOWER
FRANKFORD
3 480 HORSEPOWER
TRENTON R.P.D. (PART)
TRENTON R S
FRONTENAC
2400 V
44,000 V
NEWBURGH
NAPANEE R P D (PART)
KINGSTON
KINGSTON R.P.D. (PART)
NEWCASTLE R P D
2 400 V
4,160 V
COLBORNE R P D
WARKWORTH R.P.D.
WARKWORTH
6,600 V
TRENTON R.P.D. (PART)
NEWCASTLE
PORT HOPE
COLBORNE
SIDNEY
44,000 V
BELLEVILLE
NAPANEE
CAMPBELL MILLING CO.
KINGSTON
No. 1
OSHAWA
44,000 V
PORT HOPE
44,000 V
BRIGHTON R P D
44,000 V
6,600 V
44,000 V
44,000 V
PICKERING R P D
WHITBY
CONSECON
BRIGHTON
BELLEVILLE
No. 1
No. 2
NAPANEE RURAL
BATH
NAPANEE R P D (PART)
WELLINGTON R P D (PART)
4 020 HORSEPOWER
SIDNEY
LEHIGH CEMENT CO.
DESERONTO
COBOURG
COBOURG R S.
WELLINGTON
4,160 V
BLOOMFIELD
TRENTON R P D (PART)
TRENTON
BELLEVILLE R P D
2 400 V
DESERONTO R. P. D.
BOWMANVILLE R P D
BOWMANVILLE
COBOURG R P D
WELLINGTON R P D (PART)
PICTON
CORBYVILLE
6 600 V
BELLEVILLE R P D
CATARAQUI
KINGSTON R P D (PART)
LEGEND
GENERATING STATIONS. (HORSEPOWER IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
SWITCHING STATIONS.
DISTRIBUTING STATIONS.
MUNICIPAL STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
R P D RURAL POWER DISTRICTS
CENTRAL ONTARIO DISTRICT
LANARK
630 HORSEPOWER
CARLETON PLACE
SMITHS FALLS
RIDEAU POWER CO MERRICKVILLE
KEMPTVILLE R P D
BALDERSON
PERTH
PERTH R P D.
CARLETON PLACE
SMITHS FALLS
2,200 V.
GRENVILLE CRUSHED ROCK CO
KEMPTVILLE
HIGH FALLS
2,810 HORSEPOWER
26,400 V
26,400 V
26,400 V
26,400 V
WRIGEDDES
RIDEAU DISTRICT
SMITHS FALLS R. P. D (PART)
RIDEAU
FORFAR
SMITHS FALLS R.P.D. (PART)
SMITHS FALLS
110,000 V.
110,000 V.
FROM GATINEAU POWER CO.
OTTAWA
110,000 V.
44,000 V
OTTAWA R.P.D. RICHMOND
OTTAWA
11,000 V.
OTTAWA AND HULL POWER CO.
CHESTERVILLE R.P.D. (PART)
WINCHESTER
RUSSELL
MAXVILLE
MAXVILLE R P D (PART)
CHESTERVILLE R.P.D. (PART)
4,160 V
ALEXANDRIA R P.D.
ALEXANDRIA
CHESTERVILLE
FINCH
MAXVILLE R.P.D. (PART)
44,000 V.
WILLIAMSBURG R P D (PART)
APPLE HILL
WILLIAMSBURG
MARTINTOWN
BEACH
IROQUOIS R.P.D.
WILLIAMSBURG R P D (PART)
MORRISBURG MUNICIPAL SYSTEM
MARTINTOWN R P D
LANCASTER
44,000 V.
CORNWALL
110,000 V.
CEDAR RAPIDS POWER CO.
44,000 V
BROCKVILLE
PRESCOTT
PRESCOTT R P D (PART)
CARDINAL
PRESCOTT R P D (PART)
LOWER LAKES TERMINAL ELEVATOR CO
HOWARD SMITH PAPER CO
EUGENE PHILLIPS CO.
LYN
BROCKVILLE R P D (PART)
ATHENS
BROCKVILLE R P D (PART)
ST. LAWRENCE DISTRICT

EASTERN ONTARIO SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1929-1930-1931

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Alexandria	214.7	260.9	184.5	76.4	
Apple Hill	28.0	27.5	28.0		0.5
Athens	70.7	87.9	74.2	13.7	
Belleville	3,551.5	3,539.7	3,687.5		147.8
Bloomfield	101.2	121.0	87.8	33.2	
Bowmanville	1,724.4	1,766.4	1,551.4	215.0	
Brighton	265.4	274.2	284.8		10.6
Brockville	1,954.5	2,220.2	2,271.2		51.0
Cardinal		112.6	131.3		18.7
Carleton Place	879.9	843.1	848.5		5.4
Chesterville	167.5	198.4	197.7	0.7	
Cobourg	1,361.7	1,383.0	1,468.6		85.6
Colborne	168.9	190.6	182.3	8.3	
Deseronto	152.8	181.3	146.8	34.5	
Finch	38.1	50.0	38.9	11.1	
Havelock	220.9	228.5	227.9	0.6	
Kemptville	217.7	241.3	241.9		0.6
Kingston	4,221.8	4,451.8	4,580.0		128.2
Lakefield	192.3	225.6	227.7		2.1
Lanark	56.0	61.6	61.8		0.2
Lancaster	44.9	67.4	62.9	4.5	
Lindsay	1,522.7	1,662.3	1,718.9		56.6
Madoc	142.6	168.9	165.7	3.2	
Marmora	86.6	87.6	89.2		1.6
Martintown	25.2	27.5	26.1	1.4	
Maxville	52.2	58.0	72.6		14.6
Millbrook	68.6	85.6	68.9	16.7	
Napanee	957.5	1,009.8	1,015.2		5.4
Newburgh	236.0	45.5	41.0	4.5	
Newcastle	72.9	82.0	82.5		0.5
Norwood	142.5	168.7	135.3	33.4	
Omemee	72.9	74.4	76.6		2.2
Orono	165.7	60.9	58.5	2.4	
Oshawa	8,880.7	8,706.4	7,369.9	1,336.5	
Ottawa	22,079.0	24,047.4	25,445.0		1,397.6
Perth	774.8	891.4	1,069.1		177.7
Peterborough	6,271.0	6,400.2	6,158.4	241.8	
Picton	892.7	804.3	887.4		83.1
Port Hope	1,207.7	1,331.6	1,108.0	223.6	
Prescott	682.7	882.5	815.5	67.0	
Richmond	38.3	49.0	39.4	9.6	
Russell	50.2	72.4	57.9	14.5	
Smiths Falls	1,410.2	1,615.3	1,597.9	17.4	
Stirling	282.8	252.5	265.1		12.6
Trenton	2,610.6	2,731.6	2,874.1		142.5
Tweed	214.5	197.0	189.9	7.1	
Warkworth	57.6	69.9	75.8		5.9
Wellington	144.0	201.0	205.9		4.9
Whitby	958.5	1,020.1	1,028.5		8.4
Williamsburg	35.3	37.3	69.7		32.4
Winchester	198.4	212.3	216.4		4.1

Note:—Nepean rural power district and Richmond included in Ottawa load.

EASTERN ONTARIO SYSTEM—NEW MUNICIPALITIES

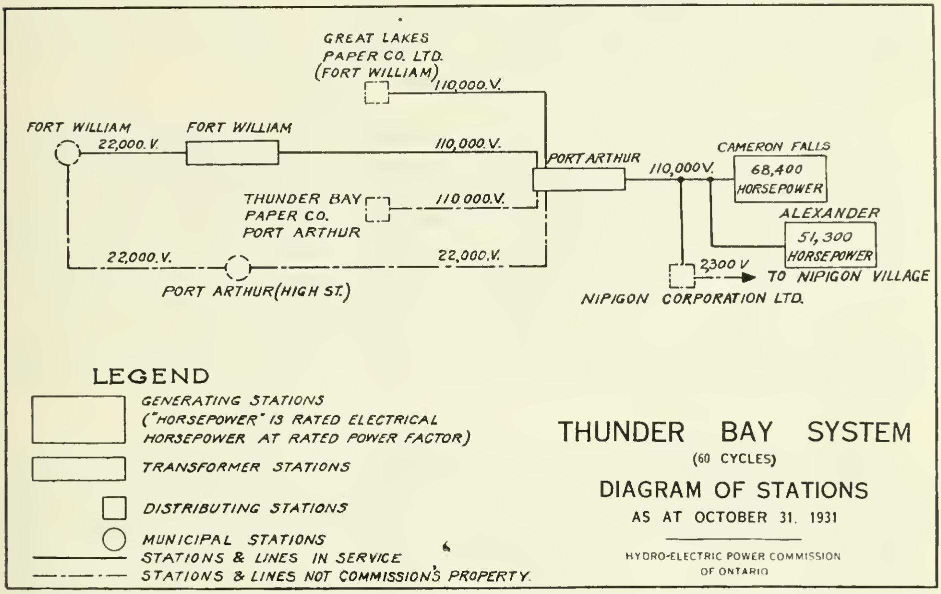
Municipality	Date connected	Initial	Oct. 1930	Change in load	
				Decrease	Increase
Hastings	May 27, 1931	91.7	73.7	18.0	

EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS—1929-1930-1931

Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Alexandria		15.2	25.0		9.8
Belleville	170.4	240.4	281.6		41.2
Bowmanville	4.9	56.7	160.4		103.7
Brighton		14.0	16.8		2.8
Brockville	59.2	406.3	269.0	137.3	
Campbellford	54.7	54.7	58.9		4.2
Chesterville	82.2	104.4	184.5		80.1
Cobourg	110.1	122.3	220.3		98.0
Colborne	44.2	67.0	77.0		10.0
Iroquois		375.0	415.5		40.5
Kingston	51.6	151.3	265.7		114.4
Lakefield	1.0	1.0	10.0		9.0
Lindsay		0.0	4.0		4.0
Martintown	42.2	46.5	62.5		16.0
Maxville	0.7	91.1	118.4		27.3
Millbrook		27.0	31.9		4.9
Napanee	5.0	103.4	145.8		42.4
Nepean	355.8	450.3	563.8		113.5
Newcastle	14.5	47.1	61.7		14.6
Norwood	5.3	9.7	21.0		11.3
Oshawa	397.4	372.6	667.1		294.5
Peterborough	424.7	434.3	476.4		42.0
Prescott	69.0	85.3	92.0		6.7
Smiths Falls	76.0	137.3	211.0		73.7
Stirling		26.3	46.2		19.9
Trenton	10.0	12.4	139.0		126.6
Warkworth	1.0	2.5	3.0		0.5
Wellington	16.0	108.8	169.7		60.9
Williamsburg	8.4	20.6	32.8		12.2

EASTERN ONTARIO SYSTEM—NEW RURAL POWER DISTRICT LOADS, 1931

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1931	Decrease	Increase
Fenelon Falls	July 1, 1931	25.5	20	5.5	
Kemptville	Nov. 29, 1930	3.6	13.4		9.8
Omemee	Dec. 29, 1930	3.0	3.0		
Perth	Aug. 17, 1931	10.0	3.0	7.0	


GREAT LAKES PAPER CO. LTD. (FORT WILLIAM)
110,000.V.
FORT WILLIAM
22,000. V.
FORT WILLIAM
110,000.V.
PORT ARTHUR
110,000V.
CAMERON FALLS
68,400 HORSEPOWER
THUNDER BAY PAPER CO. PORT ARTHUR
110 000.V.
ALEXANDER
51,300 HORSEPOWER
22,000.V.
22,000.V.
2300 V
TO NIPIGON VILLAGE
PORT ARTHUR (HIGH ST.)
NIPIGON CORPORATION LTD.
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
TRANSFORMER STATIONS
DISTRIBUTING STATIONS
MUNICIPAL STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSION'S PROPERTY
THUNDER BAY SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31. 1931
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THUNDER BAY SYSTEM

The load on the Thunder Bay system during the past fiscal year showed a decrease from that existing during the previous year, the peak load for the year showing a decrease of 5,386 h.p., or seven per cent, and the total energy decreasing sixteen per cent. These figures refer to the actual power supplied on the system, not to the revenue load. At the end of the fiscal year the revenue load, that is, the power sold and paid for according to contract, exceeded the power actually supplied by over 8,000 h.p.

The pulp mill at Nipigon has not been operating during the year, but the transformer station has been maintained in service in order to supply power to Nipigon village and township

Two additional generator units have been placed in operating service at Alexander generating station during the year, No. 2 unit on December 17, 1930, and No. 1 unit on February 27, 1931. No. 3 generator unit, which was temporarily connected for service in the latter part of last year, was changed over to permanent connections on March 9, 1931.

A small amount of new relay equipment was placed in operating service, both at Cameron Falls generating station and at Port Arthur transformer station, during the year. No new equipment has been installed at Fort William transformer station.

A large amount of hydraulic maintenance work has been carried on at Cameron Falls generating station during the year, the major item being the repairing of the eroded areas of No. 5 turbine by welding the runner in place. While No. 1 generator was dismantled for cleaning, the turbine runner was removed and repainted. Special attention was paid to the testing and adjustment of the governors. The auxiliary hydraulic equipment has been carefully gone over and placed in first-class operating condition.

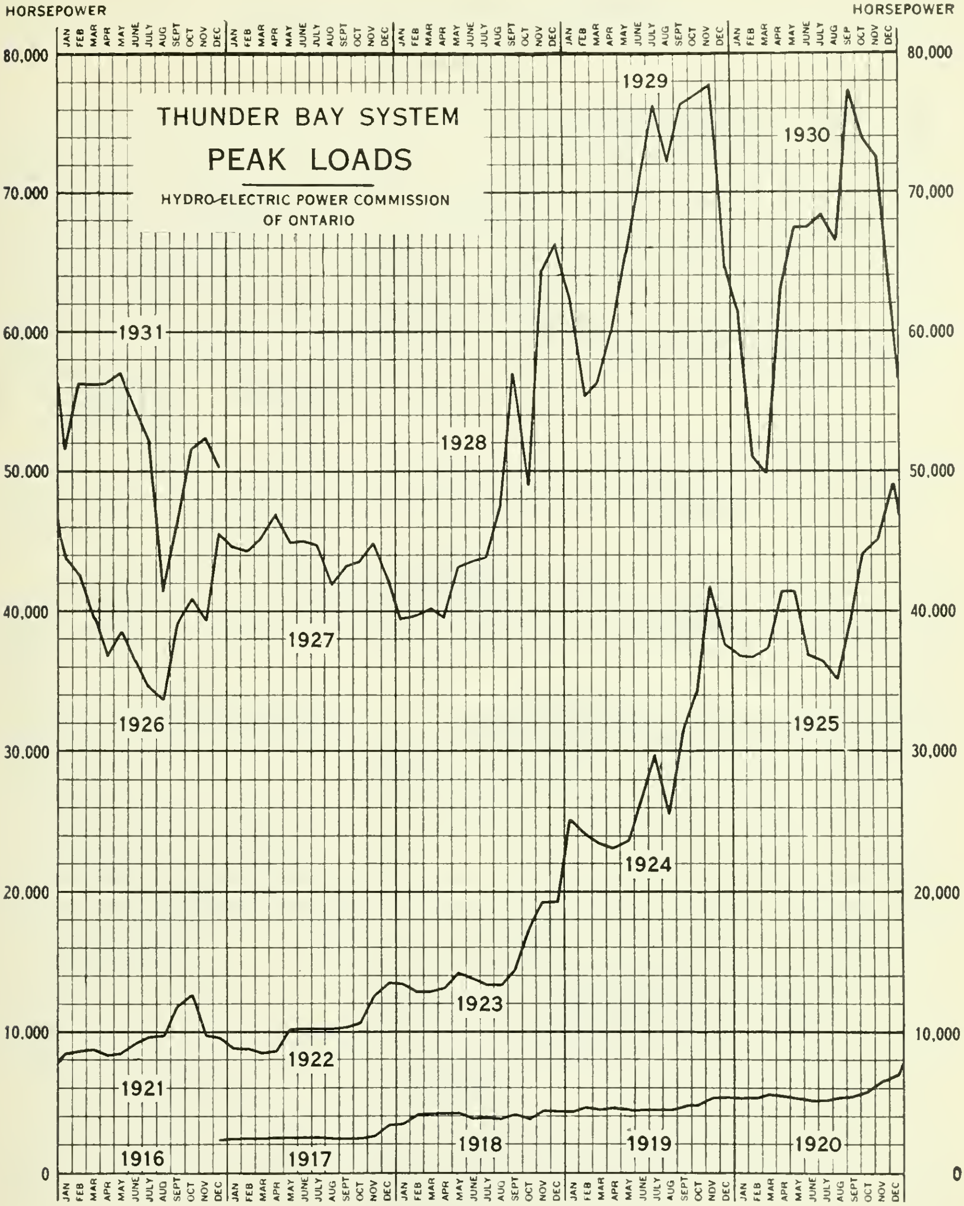
During the first part of the year No. 6 generator at Cameron Falls generating station was dismantled, by the Canadian General Electric Company, in order to install larger field poles and larger fans on this machine. No. 1 generator was dismantled during the latter part of the year for cleaning and repairs. This work was only partially complete at the year end. The main power transformer, which was dismantled the previous year, was reassembled and returned to service. On January 16, the blue-phase transformer of No. 2 bank failed. This was rebuilt and is now in good condition. All of the main power transformers on the system have now been overhauled, and are in first-class operating condition.

The service obtained from the transmission lines during the year has been very good. A tree falling into the transmission line accounted for the major outage to Nipigon Corporation station, a flashover while testing a disconnecting switch at Dorion was responsible for another interruption, while a third interruption was caused by the removal of a line from service with this station being supplied from it. Fort William transformer station had one interruption during the year, due to a flashover on the 110,000-volt transmission line from Port Arthur transformer station. In co-operation with the Department of Highways about twenty-five hundred feet of 110,000-volt wood-pole line was moved to one side in order to clear the right-of-way for the new bridge and highway at McKenzie river. Alterations were also made to the section of line between Port Arthur transformer station and the Great Lakes Paper Company in co-operation with the Canadian National Railway. Some other maintenance work, tightening guys, etc., has also been done on the wood-pole lines. Brush was cut along certain sections of the right-of-way.

The Port Arthur transformer station has had no curtailment of service to any customer due to failures of equipment. The relay and breaker equipment have all operated satisfactorily during the year. Ground selector equipment was placed in service in this station on October 11, 1931, to augment the protective features of the 22,000-volt feeder equipment.

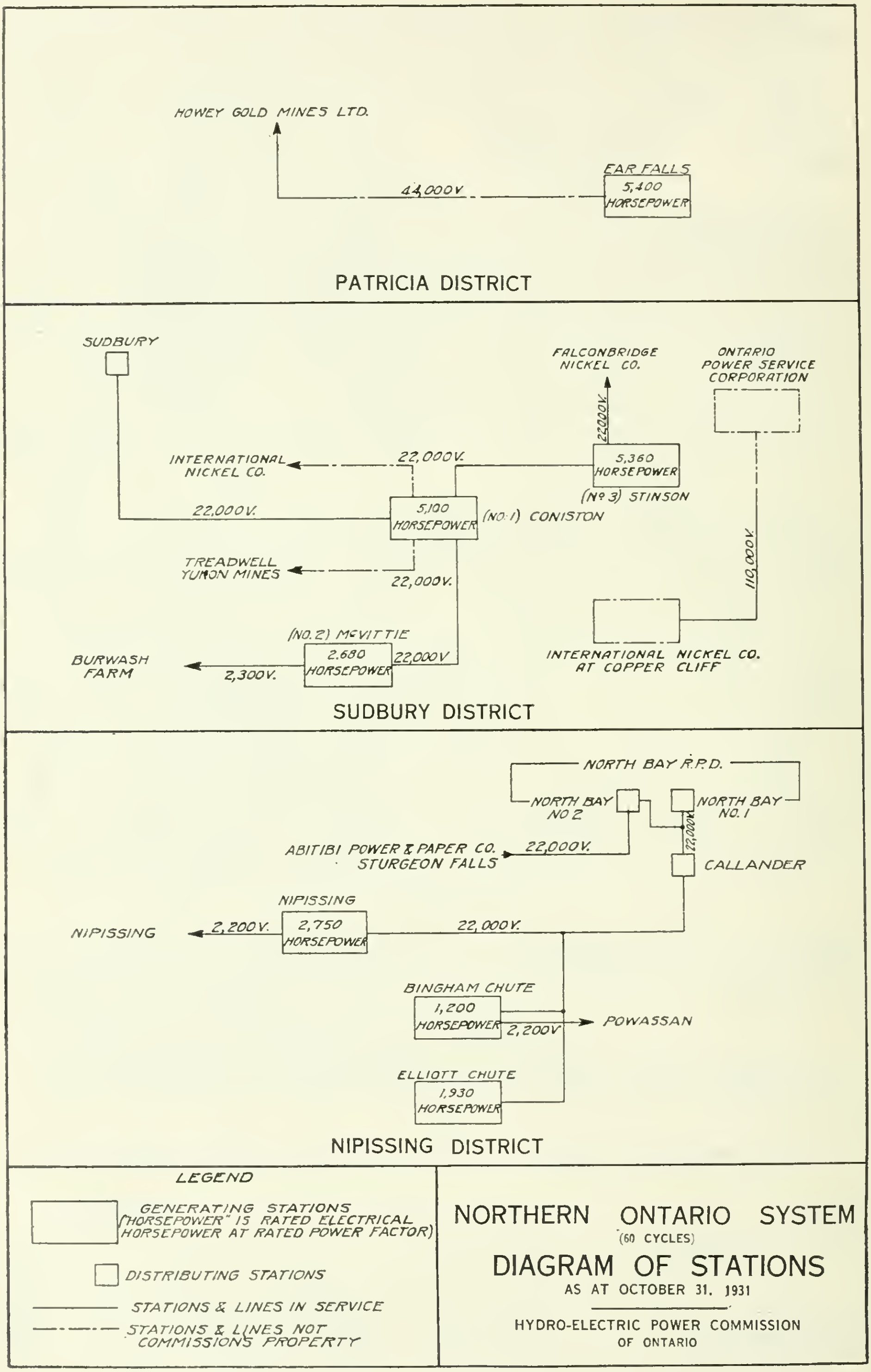
The Fort William transformer station has also had no failure of equipment or incorrect functioning of relays or breakers. The high-tension connections to the transformers at this station have been improved by replacing the spring clamps with a screw type, thus giving a more positive connection.

The precipitation in the watershed supplying this system has been relatively heavy during the year. The two generating stations have been operated in such a way as to conserve the largest amount of water. With the light load on the system, the heavy precipitation, and the two stations in operation, the level of Lake Nipigon has been raised about two feet. The logs in the dam at Virgin falls have been jacked down very much tighter in order to cut down the river flow, and the auxiliary dams around Lake Jessie have been repaired.



THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1929-1930-1931

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Fort William	9,966.5	10,596.5	11,451.7	....	855.2
Nipigon Township	57.6	65.7	70.3	....	4.6
Port Arthur	41,863.2	38,619.4	27,024.4	11,595.0	....


HOWEY GOLD MINES LTD.
44,000 V
EAR FALLS
5,400 HORSEPOWER
PATRICIA DISTRICT
SUDBURY
FALCONBRIDGE NICKEL CO.
22,000 V.
ONTARIO POWER SERVICE CORPORATION
INTERNATIONAL NICKEL CO.
22,000 V.
5,360 HORSEPOWER
(Nº 3) STINSON
22,000 V.
5,100 HORSEPOWER
(NO. 1) CONISTON
TREADWELL YUKON MINES
22,000 V.
110,000 V.
(NO. 2) McVITTIE
BURWASH FARM
2,680 HORSEPOWER
22,000 V
2,300 V.
INTERNATIONAL NICKEL CO. AT COPPER CLIFF
SUDBURY DISTRICT
NORTH BAY R.P.D.
NORTH BAY NO 2
NORTH BAY NO. 1
22,000 V.
ABITIBI POWER & PAPER CO. STURGEON FALLS
22,000 V.
CALLANDER
NIPISSING
NIPISSING
2,200 V.
2,750 HORSEPOWER
22,000 V.
BINGHAM CHUTE
1,200 HORSEPOWER
2,200 V
POWASSAN
ELLIOTT CHUTE
1,930 HORSEPOWER
NIPISSING DISTRICT
LEGEND
GENERATING STATIONS ("HORSEPOWER" IS RATED ELECTRICAL HORSEPOWER AT RATED POWER FACTOR)
DISTRIBUTING STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSIONS PROPERTY

NORTHERN ONTARIO SYSTEM

(60 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1931

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

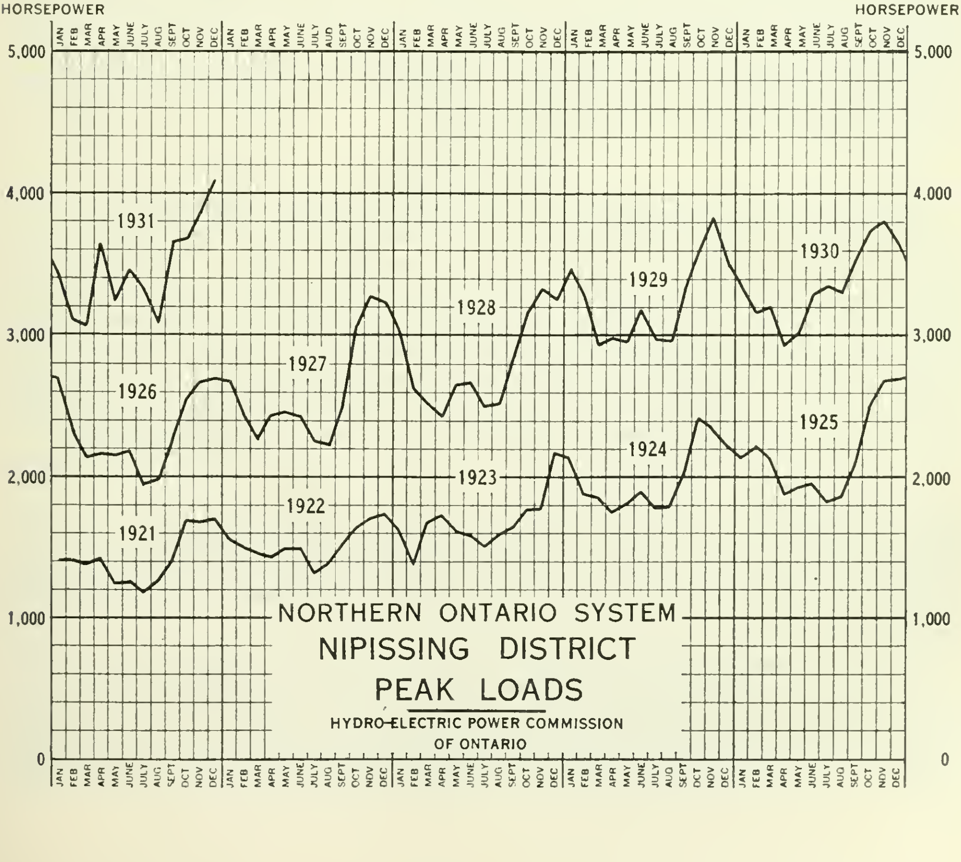
NORTHERN ONTARIO SYSTEM

Nipissing District

Owing to the amount of water available in storage on this district being greatly reduced as a result of three consecutive dry years, a serious power shortage was foreseen, and in order to prevent drastic load reductions, arrangements were made for a supplementary supply of power from the Abitibi Power & Paper Company's plant at Crystal Falls on the Sturgeon river, (formerly known as Smoky Falls). Twenty-four miles of 22,000-volt line were constructed to transmit this power from the Abitibi Power & Paper Company's line near Sturgeon Falls to the Commission's sub-station at North Bay. A slight reduction in load was required prior to the completion of the line, but the existence of this line now protects the Nipissing system against any shortage in the supply of power for several years to come.

The usual programme of progressive maintenance and improvement of storage dams on the system was adhered to, and studies were made of several possibilities for further storage. Stream-flow gauging facilities were improved and increased.

Approximately one mile of single-circuit 22,000-volt line between Nipissing power house and Bingham Chute junction, which required rebuilding, was relocated in an improved position. Alterations to the main double-circuit 22,000-volt lines were required at Callendar to accommodate highway improve-



ment. Some adjustment was required on the new tie line between Sturgeon Falls and North Bay. Insulator testing was carried out with a view to inaugurating a progressive system of faulty-insulator replacement.

Inspection of turbines at all three power houses was carried out and all units were found in good condition, a few minor adjustments being all the maintenance work required. All wood-stave pipe lines were inspected and found to be in good condition requiring only the painting of all hardware with a preservative.

At Elliott Chute generating station, which is remotely controlled, special automatic heating equipment has been designed to keep warm the oil in the generator bearing and governor pilot valve during periods of shut down in cold weather, and thus prevent sluggish operation at times of starting. Road diversions, necessitated by the building of this plant, have been maintained in accordance with agreements.

At Bingham Chute generating station a new five-roomed frame construction cottage was erected, which relieved to a large extent the inadequacy of living quarters for the employees of the Commission.

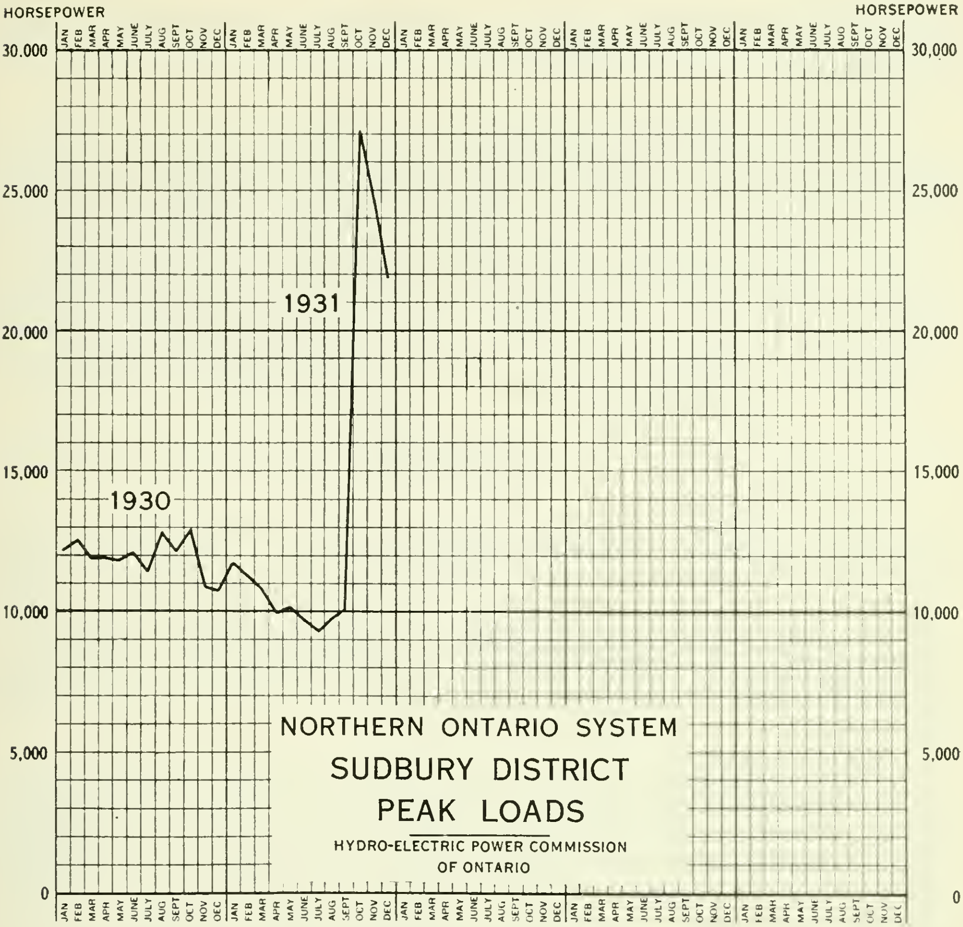
At Nipissing generating station the west wall, which was of temporary frame construction, was replaced by a permanent brick wall. Water-tight manholes were placed in the floor and stop log gains were erected at entrances to the station as protection in case of flood. Considerable building improvements incidental to this work were carried out. The obsolete electrolytic lightning arrester on the high-tension feeder was replaced with a new and modern arrester. The obsolete telephone exchange equipment was removed and an up-to-date ten-line exchange, properly protected, was installed, bringing the system telephone equipment up to standard.

Sudbury District

Although the municipal load on this district has increased slightly, this increase was, until the addition of the new sub-station and load of the International Nickel Company at Copper Cliff, more than offset by the decrease in load taken under contract by customers in the mining and smelting industries. While this new sub-station went into service September 30, and tests on the lines and equipment greatly increased the peak load for the district, as shown on graph given in this Report, delays in the completion of the customer's equipment prevented continuous power being taken, and the figures for the year's load of the district expressed in kilowatt-hours, were not greatly affected.

A considerable amount of work in connection with water storage has been carried out in this district during the past year. The rock-filled timber-crib dam on Scotia lake which was washed out during the flood of June, 1930, was rebuilt, the timber dam on Burwash lake was rebuilt, and rights have been obtained to permit raising the level of Wanapitei lake two feet above the previous high-water mark.

Approximately one-half of the 22,000-volt line from Coniston power house to Sudbury was completely rebuilt in a new and more accessible route. On the remaining portion, the No. 4 copper, which was inadequate to carry the existing load, was replaced with 4/0 aluminum conductor. This resulted in greatly improved voltage conditions at Sudbury and decreased the probability



of interruptions due to line troubles. As a further assurance of continuous service, construction of a second circuit to Sudbury is under investigation. The telephone line between Sudbury and Wanapitei Lake dam was completely restrung, the iron conductor being replaced with No. 10 copper, and portions of the line which were difficult of access were relocated close to the highway. These changes reduced transmission losses and effected a saving in the cost of maintaining lines.

At Coniston generating station, a large amount of defective timber in the dam was renewed. New metering current transformers of higher capacity were installed on the Sudbury feeder to take care of the increased load. All machines were completely overhauled, a new upstream runner being required on No. 3 turbine and a new commutator on the 100-kw. exciter.

At McVittie generating station, complete overhauling of all machines and power transformers was carried out. The electrolytic lightning arrester on the high-tension feeder out of this station was overhauled following a breakdown of two sections. A large amount of filling was required at the back of the wing dam at this station to stop leaks which developed under the dam.

At Stinson generating station, all machines were inspected and very little maintenance work was necessary. A new thrust-bearing was installed on the exciter turbine.

The new 110,000-volt transmission line to Copper Cliff was ready for service on September 30, 1931, and tests were made on the line and on the customer's receiving station during October. Due to delays in the completion of the customer's equipment, they were not ready for continuous commercial delivery up to the end of the fiscal year covered by this Report. This new double-circuit transmission line is built on steel towers and extends from Hunta to Copper Cliff, a distance of 189 miles. At Hunta the line connects with the transmission line of the Ontario Power Service Corporation, from which power is purchased and delivered over the new line, at 110,000 volts, 25 cycles, to the International Nickel Company sub-station at Copper Cliff.

Patricia District

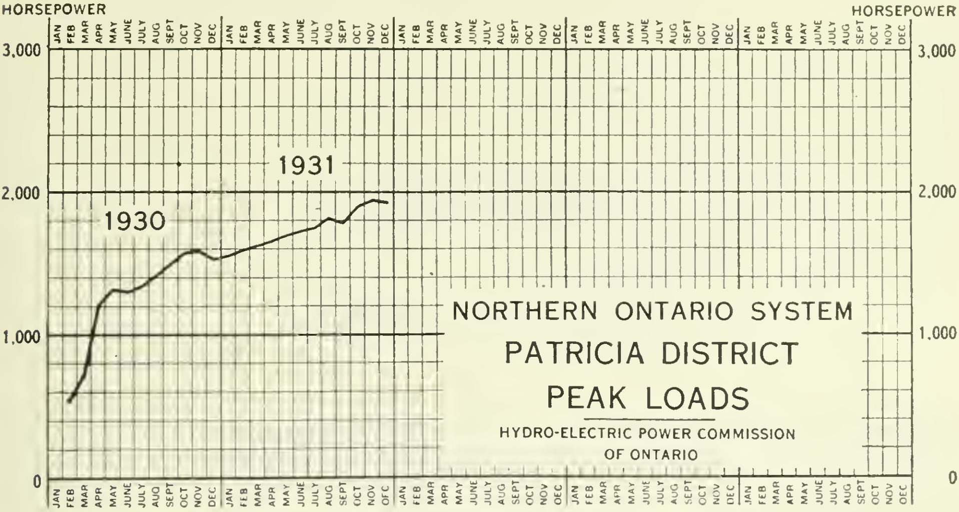
The generating and transformer station at Ear Falls on the English river has been in satisfactory operation throughout the year. All equipment has functioned as required, there being no failure of major importance. The load on the system was fairly steady for the most part with an increasing twenty-minute peak for the last three months. The peak for October amounted to 1,440 kilowatts, or 25 per cent. higher than the peak for the previous year. The average daily kilowatt-hour production also has increased steadily month by month.

Several interruptions to service took place during the lightning season, and there were three interruptions of rather long duration. On May 20, during a heavy snowstorm, oil-breaker 1B1T opened automatically, due to trouble at the receiving end, and owing to communication being cut off from the Howey mines during the severe storm, service was not resumed until some five and one-half hours later. On June 27, during an electrical storm, a current transformer caught fire and was removed from service. A replacement transformer was obtained and installed on July 5, during a prearranged interruption. On July 28 several hours interruption was occasioned by a short circuit on a temporary 2,200-volt lead at the Howey plant.

The 44,000-volt transmission line between the generating station and the Howey plant, which is owned by the Howey Mines, Limited, has been operated and maintained for this Company throughout the year under the same arrangement for costs as previously. This transmission circuit has functioned perfectly during the year and was not responsible for a single outage. Patrol and other work has been carried on throughout the year.

As required by the Lake-of-the-Woods Control Board the flow in the English river has been adjusted from time to time by means of the regulating dam at Ear Falls.

The precipitation in the vicinity of Ear Falls has been quite high, approximating twenty-eight inches during the year, with July recording the greatest amount, four and one-half inches. With this high precipitation, as well as conservation of water when not required, the level of Lac Seul has been again



raised, the level on October 31, 1931, being 1,161.0 feet, as against 1,159.4 feet on the corresponding day last year.

NIPISSING DISTRICT—LOADS OF MUNICIPALITIES—1929-1930-1931

Municipality	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
Callandar	107.2	110.7	112.8	....	2.1
Nipissing	3.0	3.0	3.0	....	....
North Bay	2,992.6	3,111.2	2,921.8	189.4	....
Powassan	96.6	95.1	117.7	....	22.6

NIPISSING DISTRICT—RURAL POWER DISTRICT LOADS—1929-1930-1931

Rural power district	Peak load in horsepower			Change in load 1930-1931	
	Oct. 1929	Oct. 1930	Oct. 1931	Decrease	Increase
North Bay	42.2	69.7	68.3	1.4	....

NORTHERN ONTARIO SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Oct. 1930	Oct. 1931	Decrease	Increase
Sudbury	Acquired May 1, 1930	3,799.0	3,967.8	....	168.8

SECTION III

MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the "Hydro" utilities of the various municipalities with which it has contracts. In this connection the Commission arranges for the purchase, construction or extension of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of these systems. All rate adjustments, as provided under The Power Commission Act, are recommended by the Commission, and a study of the operating conditions of all utilities is made annually and adjustments recommended accordingly. The Commission exercises a general supervision over the management and operation of all systems more especially in the smaller municipalities which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer properly all phases of the local system's operation.

In the case of the rural power districts, the Commission itself—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

NIAGARA SYSTEM

A noteworthy event in connection with the Niagara system took place in 1931 when for the first time this system was supplied with power from a development on the main Ottawa river. This development is situated at Chats Falls, and was constructed jointly by the Commission and the Ottawa Valley Power Company. It was put into operation in the latter part of the year, two 23,500-kv-a. generating units being put into service. Two additional units which have been installed will be put into service in the early part of the coming year. A third 220,000-volt steel-tower line has been completed and placed in operation connecting the Chats Falls plant with the Leaside transformer station at Toronto. This includes transformer and switching equipment at the Chats Falls generating station and also at Leaside to take care of the power transmitted over this new line.

The prevailing depression did not, during the past year, permit the extent of growth which in recent years has characterized the industrial power load supplied by the local "Hydro" utilities of the Niagara system. Notwithstanding this, there was during the year a small increase in the aggregate industrial load supplied. The load in both domestic service and for commercial lighting purposes has been well maintained. In the rural power districts there has been an increase in load of about 15 per cent.

Dominion Power and Transmission System

Progress has been made in connection with the properties formerly owned by the Dominion Power & Transmission Company, which Company, with subsidiaries, was purchased by the Commission in 1930. During the year the distribution system, substations and other properties of this Company situated in the city of Hamilton were sold to the Hamilton Hydro-Electric System, for $2,125,000, and negotiations are being carried on with the Brantford Hydro-Electric System and the St. Catharines Public Utilities Commission for the purchase by them of the subsidiary companies in these cities. Arrangements have been made for transferring the rural distribution lines of the Dominion Power & Transmission Company to the established Hydro rural power districts in this general area. These changes will be completed early in the coming year.

Interruptible Off-Peak Power

Although the Niagara System of the Commission has a high load-factor it has, of course, daily and seasonal peaks, thus there are periods of the day and of the year when large amounts of surplus "off-peak" power are available. When "off-peak" power is sold with the stipulation that the supply may be interrupted at the will of the vendor, it is termed "at will" or "interruptible" power. "Off-peak" power, however, on account of the uncertainty of the times and durations of the system peaks, is not sufficiently dependable for ordinary industrial uses. A limited amount of such power can be utilized by large special industries in certain heating and electro-chemical processes. The chief market for "at will" or "interruptible" power, however, is in adjacent territory served by power supply systems securing at least a large proportion of their power from steam plants or from hydro-electric plants using stored water. By utilizing when available this interruptible off-peak power, these systems can conserve their fuel supplies or their equivalent stored water.

From time to time during the year the Commission has been able to dispose of quantities of "at will" or "interruptible" off-peak power to the Canadian Niagara Power Company for use in the United States with arrangements that permit of its withdrawal at any time when required by Canadian industries. The sale of this power in the past has resulted in substantial revenue to the Niagara system, which revenue otherwise would not have been obtained. During the year 1931, however, due to adverse economic conditions, the amount of this class of power sold was very much reduced.

Engineering Assistance to Municipalities

General engineering assistance was given during the year to practically all of the municipalities in the Niagara system, by a general supervision of management and operation, and also in connection with the construction and extension of distribution systems and stations. Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

Barton Township—Negotiations have been completed with Barton township for the sale of its Hydro system, which will become part of the Saltfleet rural power district.

Brampton—Many circuits have been rebuilt to provide for increased loads in various parts of the town. Estimates were prepared covering removal of pole lines from the business portion of the main street.

Brigden—The street-lighting system was remodelled and additional equipment installed to accommodate the change from 100-watt to 200-watt lamps on Main street.

Chatham—The rebuilding of the Chatham substation with duplicate 4,000-volt bus and switches of high rupturing capacity, was commenced and will be completed early in the new year. Plans were made and approved for the building of the duplicate single-circuit, 26,400-volt line from the Kent transformer station, for the greater part of the distance on other poles. This line will therefore provide a supply over an independent pole line for part of the distance from Kent transformer station to the Chatham municipal station. The original double-circuit line will still be used for the remainder of the distance.

Comber—The secondary conductors on the main street were increased in size, and the trees on this section of the system were trimmed by the forestry specialists of the Operating department.

Hamilton—The distribution system of the Dominion Power and Transmission Company in Hamilton was taken over from this Commission by the Hamilton Hydro-Electric System, as of May 1, 1931. This will be operated as a separate system until such time as the frequency of the power supply is changed. At present, it is planned to make this change after a five-year period.

Ingersoll—Arrangements are being made for additional street-lighting units on Thames street. The changes proposed will make it possible to remove the wooden poles from the main business portion of this street. A new pole line, which adds greatly to the general appearance, has been erected on No. 2 highway running through the town.

Lambeth—The changes in the distribution system made necessary by the serving of this municipality from Glendale station instead of Delaware station, were completed during the year.

Merritton—Approval has been given for the erection of ornamental street lights on the main street and the removal of the service wires to the rear of the buildings. Assistance was also given in planning the revision of the distribution system throughout the municipality.

Niagara Falls—A study was made of the Niagara Falls Hydro system in connection with the issuing of debentures to cover additional station and feeder equipment. New ornamental lights have replaced regular lights on a number of streets.

North York Township—A station of 1,500-kv-a. capacity has been erected at Willowdale, approximately two miles north of the original York Mills station, to provide power for the northerly portion of the township, including the load of the North Yonge Radials which is a customer of the township. Heavy primary circuits have been erected from this station and from the old York Mills station, as these were badly needed to carry the rapidly increasing loads of the local Hydro system.

St. Marys—Following a vote on a by-law providing $25,000 additional debentures, portions of the local system were rebuilt.

St. Thomas—A 13,200-volt extension to the east of the city to supply a new clay products plant with 250 horsepower was approved in October. This installation will be made early in the coming year and application has been made by the city to annex the property.

Tavistock—The secondary voltage of the distributing station was changed from 550 to 4,000/2,300 volts and the use of a step-up bank of transformers thus eliminated.

Thedford—The distribution system was remodelled and larger transformer capacities and larger secondary conductors were provided. All new equipment installed is suitable for operation at 8,000 volts, as a change to this voltage is anticipated.

Thorold—A new electrically driven fire pump has been installed at the waterworks plant.

Tillsonburg—In order, at a later date, to be able to remove all poles for three blocks on the main street and install ornamental lighting standards, the secondary conductors in this area are being removed from the poles and erected on the faces of the buildings, the conductor size being increased. The transformers are mounted immediately around the corners off the main street. The town takes power at 13,200 volts and in the coming year its plans call for a remodelling of its step-down station.

Wallaceburg—The ornamental street-lighting system, consisting of fifty 300-watt multiple lamps in ornamental standards fed by an underground system, was completed and put in operation. A section of the distribution system was remodelled and larger transformers and larger secondary wires were installed to accommodate the increased load.

Welland—A new office building has been completed on Division street for the accommodation of the local commission and the staff of the rural power district.

GEORGIAN BAY SYSTEM

There was a very satisfactory increase in power requirements of this system during the year. New substations were constructed for feeding new districts; the capacity of several existing substations was increased, and extensive expansion took place in rural districts as well as in Bruce county. There was a substantial increase in the territory actually served.

While the growth in power demand for urban municipalities of the Georgian Bay system did not equal the annual growth of previous years, this has been more than made up by the increased demand in the rural districts and by the added demands of the six urban and five township municipalities whose distribution systems were acquired from The Walkerton Electric Light & Power Company and The Saugeen Electric Light & Power Company. The most remarkable feature of load growth is noticeable in the summer resort districts included within the area of this system, and situated along the shores of Lake Huron, Georgian bay, and lake Simcoe, and throughout the Lake-of-Bays district, and as a result of this particular load the system peak in the month of August approximates that in the month of December, with the actual demand of the summer resort load being somewhat over 1,600 horsepower.

The Walkerton Electric Light & Power Company and The Saugeen Electric Light & Power Company acquired in 1930 from The Public Utilities Consolidated Corporation, a subsidiary of The W. B. Foshay Company of Minneapolis, were consolidated with the Georgian Bay system during the year. The towns of Southampton, Walkerton and Wiarton, the villages of Hepworth and Port Elgin, as well as the townships of Amabel, Brant, Carrick, Greenock and Saugeen were the municipalities directly affected by this change. The villages of Mildmay and Formosa are indirectly affected on account of the fact that although power in the latter is handled by private companies, the electrical energy is purchased from the Commission. All the incorporated municipalities with the exception of Hepworth, passed by-laws, executed agreements with the Commission, purchased their own distribution systems, and are now carrying on under local management. The rural districts and townships were organized into the Bruce and Sauble rural power districts and are now being served in accordance with the legislation governing the distribution of power in rural power districts.

General engineering assistance and advice concerning the management and operation of the various local distribution systems, also assistance in connection with the application of rates and the submission of information to power and lighting customers was rendered to all of the municipalities throughout the district. Engineering advice of a special nature in connection with matters referred to was given to the following municipalities:

Barrie—The distribution system was reconstructed and changed from two-phase to three-phase, the work being performed by the local staff.

Creemore—The local distribution system was completely reconstructed to comply with present-day standards and existing load conditions, and the primary voltage was changed from 4,000 to 8,000 volts. The work was performed by the Construction Department of the Commission under plans and specifications prepared by the engineering staff.

Grand Valley—Plans and specifications were prepared and estimates submitted by the Commission covering a complete reconstruction of the distribution system to conform with present-day standards and existing load conditions. The actual work will be performed early next year.

Port Elgin—Enabling and Money by-laws covering a supply of power from the Commission were submitted to the ratepayers and carried. A contract for a supply of power was executed with the Commission and the local distribution system was taken over by the municipality and completely reconstructed.

Rosseau—A contract covering a supply of power was executed with the Commission and a new distribution system was constructed by the Commission for the municipality and placed in operation during the month of July.

Southampton—A contract was executed with the Commission covering a supply of power and the local distribution system was purchased from the Commission and placed under local management.

Walkerton—Enabling and Money by-laws were submitted to the ratepayers and carried, and a contract was executed with the Commission covering a supply of power. The distribution system was completely reconstructed with the assistance of the Commission's engineers and the Construction Department.

Wiarton—Enabling and Money by-laws were carried and a contract executed with the Commission covering a supply of power. The local distribution system was purchased from the Commission and completely reconstructed.

EASTERN ONTARIO SYSTEM

This system includes the Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts and serves all eastern Ontario. The western boundary of the system is in Ontario county.

The power supply is from developments owned by the Commission on the Trent Canal system, Mississippi and Madawaska rivers. Power is also purchased in large blocks from the Cedar Rapids Power Company at Cornwall, and from the Gatineau Power Company near Ottawa. Some small blocks of power are also purchased at other points on this system. The future growth of load for this system has been arranged for under a contract with the Gatineau Power Company. The Commission also controls, or has an interest in, a number of undeveloped water-power sites on the Ottawa, Mississippi and Madawaska rivers, power from which sites can be made available as warranted by the power demands. Owing to extremely low water conditions it was necessary to call on the Gatineau Power Company for the annual increment of 6,000 horsepower in September instead of October as provided for in the agreement and for the same reason additional power was obtained from the Cedar Rapids Power Company for short periods.

General engineering assistance was given to most municipalities and special assistance to the following in connection with the matters referred to:

Arnprior—Negotiations are under way in connection with the purchase by the corporation of the local distribution system.

Bath—This village entered into a contract with .the Commission for a supply of power and will receive service early in November. A local distribution system is being constructed by the corporation.

Belleville—The main substation supplying power to Belleville was rebuilt and enlarged by the Commission.

Bobcaygeon—Requests were received from the village for a supply of power. Estimates were prepared on the cost of power and will be submitted at an early date.

Bowmanville—The necessary by-laws covering the purchase of the local distribution system from the Commission were passed on October 31, 1931.

Cobourg—Negotiations for the purchase of the Cobourg water and electric systems by the Corporation are proceeding.

Deseronto—The Corporation completed the purchase of the local distribution system from the Commission and took over the operation of the system on April 1, 1931.

Hastings—This village signed a contract with the Commission and received its first supply of power on May 28, 1931. The local distribution system was purchased from the Fowlds Company, Limited and was reconstructed for the corporation by the Commission.

Newburgh—This village has opened negotiations respecting the purchase of its local distribution system.

Marmora—The municipality has under consideration a new water-pumping station for fire protection.

Petawawa—The Dominion Government through the Department of National Defence, asked the Commission for the price of power for lighting purposes at Petawawa. This was furnished but the matter is held up temporarily.

Peterborough—Estimates were prepared and forwarded to the municipality in connection with a duplicate 44,000-volt line from Auburn station to Peterborough municipal station.

Renfrew—Due to a shortage of water on the Bonnechere river, the municipality of Renfrew again applied to the Commission for power. The Commission was able to assist it in the winter months.

Stirling—Improvements were made to the local substation.

Tweed—The Corporation completed the purchase of the local distribution system from the Commission and took over the operation of the system on May 1, 1931.

Westport—This municipality applied to the Commission for a supply of power in the fall of 1930, and the ratepayers voted favourably in January, respecting entering into a contract with the Commission and constructing a distribution system. The line to feed Westport was constructed connecting with the Commission's Forfar station. This line and the distribution system constructed by the Commission, were put into service on November 14th, 1931.

THUNDER BAY SYSTEM

The consumption of power in this district was substantially curtailed, due to the effect of the industrial depression on the grain trade and the pulp and paper industry, which normally utilize a large proporation of the power generated. The revenue however, has not fallen off in proportion to the power demand due to the collection of stand-by charges in the power rates, and therefore is not as much affected as the load conditions might suggest. Until these industries commence to show improvement, there will probably be no increased power demands in the district. The Alexander development was completed and all three units were placed in operation during the year.

Engineering assistance and advice covering the management and operation of the various distribution systems was given to the cities of Fort William and Port Arthur and to the village of Nipigon, which comprise this system.

NORTHERN ONTARIO SYSTEM

Nipissing District

An agreement was entered into with The Abitibi Power & Paper Company covering a supply of emergency power from the Crystal Falls development on the Sturgeon river (formerly known as Smoky falls) and a new transmission line was constructed and placed in operation between North Bay and Sturgeon Falls. By this arrangement an additional supply of emergency power was made avilable to supplement the power developments on the South river during periods of low stream flow, thus assuring North Bay and the other municipalities of an adequate supply of power regardless of circumstances and conditions on the South river.

Sudbury District

The transmission line between Hunta and Copper Cliff was completed and placed in operation during the year and power was made available to The International Nickel Company. Power is obtained from The Ontario Power Service Corporation at approximately 110,000 volts at Hunta under a contract executed last year. The development is situated on the Abitibi river and the Commission is now in a position to supply the complete requirements of the mining industry in Northern Ontario. Assistance was given to the town of Capreol in making provision for a future supply of power, and money and enabling by-laws were submitted to the ratepayers and carried almost unanimously. Assistance was also given to the town of Thessalon in the matter of preparing a suitable schedule of rates for future operation.

Patricia District

This district is supplied with power from the development at Ear Falls at the foot of LacSeul, the only customer at the present time being a large gold mine. Assistance was given this customer throughout the year in connection with the utilization of power.

RURAL ELECTRICAL SERVICE IN ONTARIO

One of the Waterloo county farms, through the hollow of which flows a spring creek. Alongside of it are assembled the buildings. Layouts of this kind are often the subject of study of landscape architects. Thrifty people of the same family have each contributed a share to the development of this place as a home and well-tilled farm

RURAL ELECTRICAL SERVICE

It is nearly twenty years since the Commission first supplied electrical service to rural consumers. In the earlier years this service was supplied to townships and for the most part the rural consumers were reached by extensions to existing urban and suburban distribution networks. By 1920, some 2,200 rural consumers were served, but the aggregate rural load was less than 500 horsepower. In 1920, amendments to The Power Commission Act provided for the formation of rural power districts and in 1921 and 1924 special rural Acts were passed by the Provincial Legislature providing for the payment of Povincial "grants-in-aid." These legislative enactments;* the special consideration given to rural electrical service; and the experience gained and put into practice by the Commission, have resulted in a remarkable growth in rural electrical service in Ontario. This is well shown by the accompanying charts. There is, indeed, no branch of the Commission's activities to which, during recent years, more detailed consideration has been given than its department of rural electrical service.

Of the material factors which contribute to the healthy growth of modern communities none is more beneficial than an ample supply of low-cost electrical power. And this applies both to urban and rural centres. Certainly no other agency can contribute more to the maintenance of a standard of living which makes life in rural districts more attractive. The rural population of Ontario has therefore welcomed with enthusiasm the possibility of obtaining efficient

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*Re Rural Power District Legislation:—Consult *The Power Commission Act* (R.S.O. 1927, ch. 57); *The Rural Hydro-Electric Distribution Act* (R.S.O. 1927, ch. 59); *The Rural Power District Loans Act, 1930* (20 Geo. V, ch. 14), and *The Rural Power District Service Charge Act, 1930* (20 Geo. V, ch. 15).

lighting along with the advantages of a very flexible form of power supply such as are combined in "Hydro" rural service.

It must, however, be recognized that rural electrical service is essentially a community interest and to attain its greatest success must have the whole-hearted support of all rural dwellers. Co-operation is the keynote of success. Primarily, rural service is made possible by the great networks of transmission lines which have been constructed to servė urban municipalities. These networks afford a base from which rural primary lines may economically be extended over wide areas of the more closely settled parts of rural Ontario. Thus there is co-operation between the urban and rural citizens. The growth in the mileage of rural lines during recent years has been phenomenal, until at the present time the aggregate length of such lines exceeds the mileage of the main transmission lines built to serve urban centres. In the rural power districts the transmission lines which serve the individual farmers can also carry electrical energy to churches, schools and stores, as well as provide power for factories utilizing agricultural products as their raw material. Thus, co-operation produces the greatest benefit to all and results in lower costs.

The policy and practice of the Commission has been, and is, to make a distribution of electrical energy as widespread as possible, and to extend to every community that can economically be reached by transmission lines the benefit of electrical service. In harmony with this policy, the supplying of electrical service to rural districts has been undertaken according to a comprehensive and carefully thought-out programme. For the purpose of electrical service in rural Ontario, rural power districts are formed in the more closely settled portions of the Province traversed by transmission lines. A typical rural power district covers about 100 square miles. Its boundaries are not arbitrary geographical limits—such as define, for example, the areas of townships—but depend rather upon the economic distances which may be served from a distribution centre of city, town or village or other sources where suitable power is available. It should be appreciated that without such transmission networks as have been constructed to serve the cities and towns of the Province, any extensive rural electrification would be economically impracticable.

The experience gained by the Commission and the improvements in technique, enable electrical service to be given to rural districts when there can be secured three signed farm contracts, or their equivalent, per mile of line to be constructed.

Assistance respecting electrical service is given by the Province to farmers and rural residents in three ways, namely:

First—A grant-in-aid toward the initial capital cost of supplying electrical service, amounting to fifty per cent of the cost of line and secondary equipment necessary to deliver power from the supply point of city, town, village, etc., to the customer's property. This is the maximum amount provided for by the Rural Hydro-Electric Distribution Act.

Second—Authority has been granted by the Province to the Commission in *The Rural Power District Service Charge Act, 1931*, to fix a maximum service

RURAL ELECTRICAL SERVICE IN ONTARIO

Silo filling in the Baden district using a 5-horsepower electric motor on a farm adjacent to the birthplace of the late Sir Adam Beck Nearly twenty years ago this farmer conceived the idea of making use of the water which flowed through his farm in a spring-supplied creek, to supply his power requirements and he developed it to the extent of a 10-kilowatt plant. In addition to lighting the buildings, he at that time installed a 5-horsepower motor in the barn. Difficulty was experienced, however, in starting the machinery and about five years ago when Hydro power became available to this district, this farmer was one of the first to appreciate its advantages. The clutch shown on this motor is the one formerly in use on the other motor

charge for any class of service rendered by the Commission in a rural power district. Where as may be the case in newly established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, are charged to that rural power district in a special account—known as the "Rural Power Service Suspense Account"—in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is to be paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is extinguished.

A tabulation set out on an accompanying page shows the present maximum service charge placed in effect on January 1, 1930.

Third—An Act—*The Rural Power District Loans Act, 1930*—to provide for granting aid towards the installation of electrical works in rural power districts was passed during the year 1930. The purpose of this Act is to provide advances towards the installation of electrical services in rural power districts, subject to regulations. Aid may be granted subject to such regulations and repayments, or the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

Rural Loans

Following the passing of the Rural Power District Loans Act in 1930 the Ontario Government turned over the administration of this Act to the Commission and early in the year it was brought into operation.

Regulations prescribed by the Act for its administration were drawn up and approved by the Government. Under these Regulations the Commission is empowered to loan to rural Hydro consumers who are classed as farmers and who own their premises a sum of money not to exceed $1,000 for the following purposes:

(a) The erection of service line from roadway to the meter located on the farmer's premises;
(b) Wiring of dwelling;
(c) Wiring of barn;
(d) Wiring of other buildings;
(e) Purchase and installation of utility motor;
(f) Purchase and installation of grain grinder;
(g) Purchase and installation of pumping equipment;
(h) Purchase and installation of milking machine;
(i) Purchase and installation of electric washing machine.

The interest rate on such loans was set at 6 per cent per annum and the loans were made repayable in quarterly instalments of principal and interest.

Up to October 31, 1931, there have been received 126 applications for Loan. Of this number, approval to 23 applications has been withheld pending the receipt of evidence that obligations in the way of interest on mortgages or taxes outstanding at the time the applications were received are liquidated. Approval by the Commission has been granted to 74 applications for loan and the amounts applied for have been paid to the applicants. The remaining 29 applications are practically ready for approval.

The total amount of loans approved is $23,542; the average amount of each loan is $318.14. With respect to the 74 applications approved, the following Table shows the number of applications in which the different items enumerated in the Regulations were applied for, also the cost to the consumer of these items. In many cases the amount approved by the Commission was substantially less than the cost to the consumer as the consumer did not wish to borrow up to the

RURAL ELECTRICAL SERVICE IN ONTARIO

The horsesweep power was familiar in the past as one of the first forms of portable power for thrashing. This was largely superseded by steam engines, gasoline engines and tractors. There are, however, a few left in Ontario but these are rapidly being supplanted by the electric motor. The type of thrasher in use at this place could easily be driven by a 5-horsepower electric motor instead of the six teams.

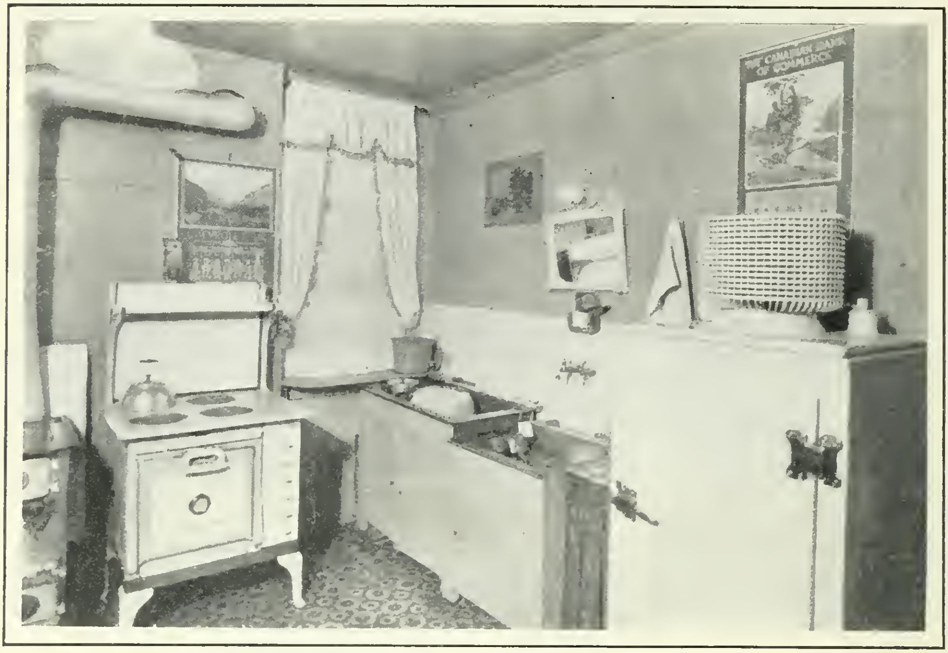
full amount of the cost of his installation, and in some cases the amount asked for was in excess of what was finally agreed to as a loan:

Items applied for in connection with a total of 74 loans	Number of applications affected	Cost to consumers
Services	60	$3,484.80
House Wiring	63	7,860.79
Barn and Building Wiring	60	6,160.49
Motors	16	1,545.30
Grain Grinders	15	2,489.50
Pumping Equipment	6	616.50
Milking Machines	2	675.00
Washing Machines	15	1,734.00
Total Cost		$24,566.38

Of the 74 Loans approved the following Table shows the number of Loans approved for each term of years from one to ten years:

One Year Loans	1	Six Year Loans	3
Two " "	0	Seven " "	10
Three " "	3	Eight " "	7
Four " "	4	Nine " "	0
Five " "	19	Ten " "	27
			74

The assistance given by the Province in these several ways is in pursuance of a long-established governmental policy of promoting the basic industry of agriculture. This policy had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for farm drainage, road building and in other ways. The grants-in-aid and guarantees



RURAL ELECTRICAL SERVICE IN ONTARIO

The well-equipped kitchen in the home of a farmer in the Baden district, in which the electric service results in great saving of labour. Other parts of this home and the barn are well provided for in electrically-driven, labor-saving power devices

thus given make it possible to extend hydro-electrical power service to those engaged in and connected with agricultural pursuits in less densely populated districts where otherwise such service would not be financially feasible.

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates solely to the initial capital investment for distribution facilities in rural power districts only. Having made its grant-in-aid, the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district not only pays the cost of operation, maintenance and administration of its lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the townships served.

The aggregate load distributed to the rural dwellers is, and possibly must always be, but a relatively small proportion of the total energy distributed by the Commission. Therefore any benefit accruing to the urban municipalities as a result of the slightly enlarged scale of operations due to the Provincial grant-in-aid, is so small as to be negligible. There is, however, a broad community

RURAL ELECTRICAL SERVICE IN ONTARIO

A view from the air of the Provincial plowing match held this year at Peterborough, showing the tent city, the parking areas and fields in which the plowing contests were held. The Commission made a demonstration of electric power-using equipment such as might be used in rural and farm homes, barns and dairies

of interest between urban dwellers and agriculturalists, and the beneficial influence of rural electrical service on agriculture is reflected in the prosperity and welfare of the Province as a whole.

The accompanying diagrams illustrate the unprecedented expansion of rural primary-line extensions during the last eleven years, and the increase in the use of electricity by the farming communities of Ontario as shown by the aggregate peak loads. It is believed that further substantial progress will be made in the next few years. An outstanding reason for this growth is the extent to which the Commission has gained the confidence of the rural communities through efficiency in the construction of lines, through progressive reductions in rates and by a continuity of service which has contributed very materially to progress by inspiring confidence in the use of electrical power-driven machinery.

The Year's Activities

During the past year the amount of constructional work carried out in the rural power districts exceeded that of any year except the year 1930. Some 1,304 miles of primary transmission lines were constructed or under construction and electrical service was given to 8,886 additional consumers. The capital expenditure approved for rural construction work during the past year was

$2,644,702, and the aggregate peak load in October, 1931, reached 31,790 horsepower. Details of these matters and of the present status of rural distribution are presented in the accompanying tables. For the coming year, arrangements have been made to construct about 1,200 miles of additional rural lines.

The engineers of the Commission attended, during the past year, a number of public meetings throughout the Province, held for the specific purpose of explaining to prospective consumers the rates at which electrical power could be supplied, the uses which can be made of power on the farm and the procedure necessary to obtain service. In all, sixty-five meetings were held. Where possible, moving pictures were shown, illustrating the uses of electricity on the farm. The provincial statutes relating to rural distribution were explained, pamphlets were distributed, and assistance was given to local committees appointed to canvass their respective districts.

The Commission also co-operated with the Provincial Department of Agriculture by giving similar talks to students taking short-course lectures at the Agricultural College at Guelph, and at other centres. Representatives of the Commission also attended provincial ploughing matches and arranged to give information to a large number of interested farmers. The manufacturers of electric motors and other equipment used in connection with power on the farm co-operated with the Commission in giving demonstrations at various places, showing actually how power can advantageously be employed by the farmer.

During the past year not only has the power taken by the rural power districts increased because of increased mileage of transmission lines and the demand of the consumer connected to these new lines, but the demand for power has also increased due to the greater use of electricity on the farms already served and due to the connection of new consumers to existing lines. Furthermore, many townships have installed—in districts where the conditions warrant—street-lighting systems on the public highways. To supply these increased loads, new substations have been constructed and the capacities and number of lines have been increased.

The tabulation on page 78 shows the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amounts of provincial grant-in-aid of rural lines approved by the Government.

Rates for Rural Electrical Service

Rates to rural consumers are based upon service "at cost"—proper account, of course, being taken of the Provincial grant-in-aid for rural work and the operation of the provision for a maximum service charge—and as in urban centres the rates are made up of two parts, a service charge and a consumption charge. In any given rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (see "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is in the form of a first and second kilowatt-hour charge and is largely determined by the cost of power at the source of supply to the rural power district.

RURAL ELECTRICAL SERVICE IN ONTARIO

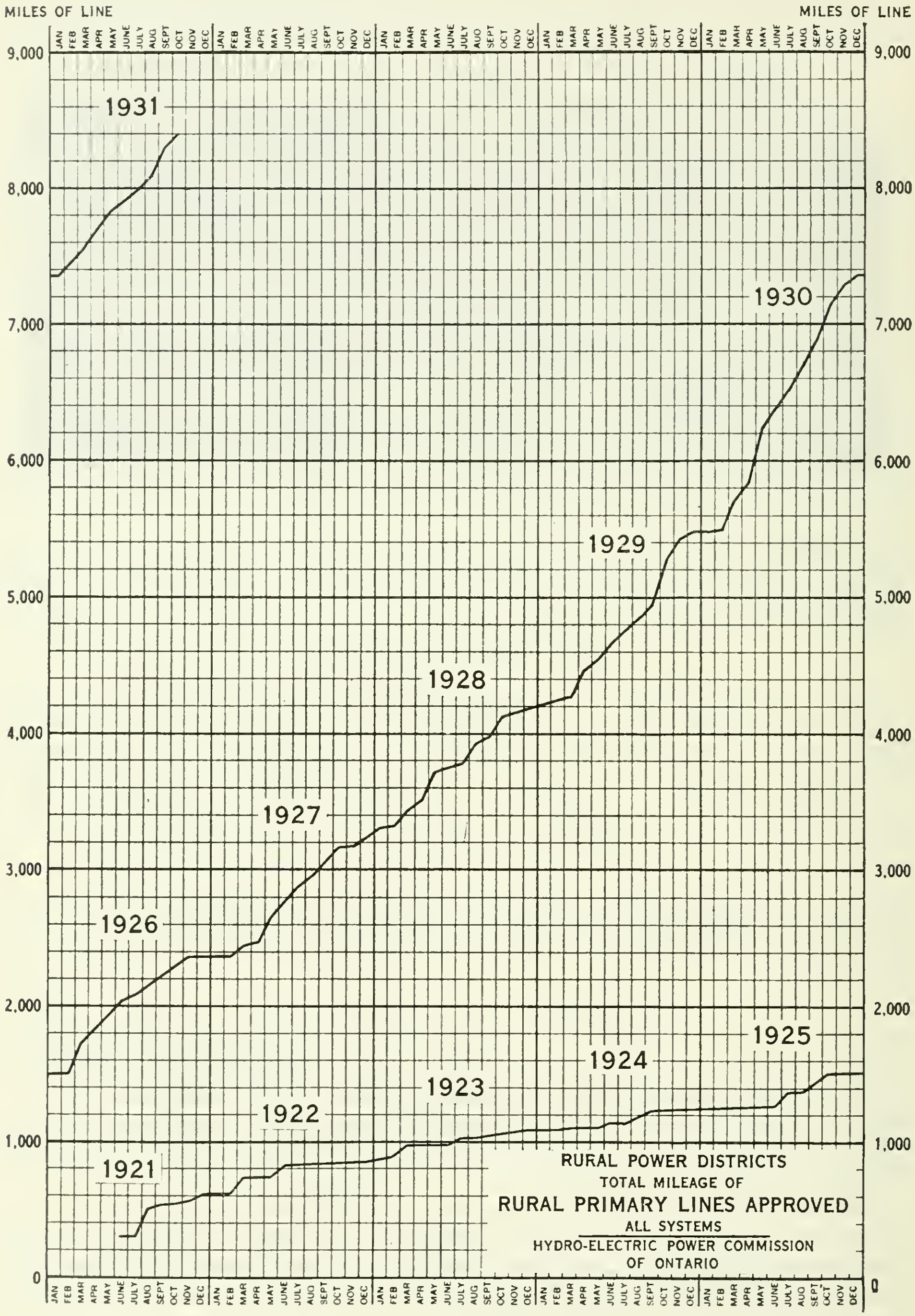
Prior to 1926 most of the cigarette or bright-leaf tobacco was brought into Canada to supply our requirements. Some enterprising farmers in Norfolk county in that year grew a field of tobacco at Lynedoch near Simcoe as an experiment. While the light sandy soil in that section is of little use for ordinary farming, the industry has grown so that there are now 20,000 acres under tobacco cultivation, the total crop being worth several millions of dollars. The Commission's engineers are investigating the possibilities of the application of Hydro-electric power to this new industry for water supply to green houses used to cultivate the young plants and for heat control of curing kilns and special lights for color grading, etc.

An important factor in connection with rural power supply is the stability of the rates charged. Since service is given at cost and since it is the policy to give service whenever economically practicable, it is necessary, in the interests of the rural consumers themselves, to ensure by contract a certain minimum return from each mile of line constructed. Otherwise, if one or two prospective consumers failed to take service, it would place an unfair burden upon those who did. Experience has led the Commission to adopt the safe policy of constructing rural lines only when sufficient contracts have been signed to guarantee payment of the fixed charges on their cost; the minimum signed contracts required being three ordinary farm contracts or their equivalent per mile of line constructed.

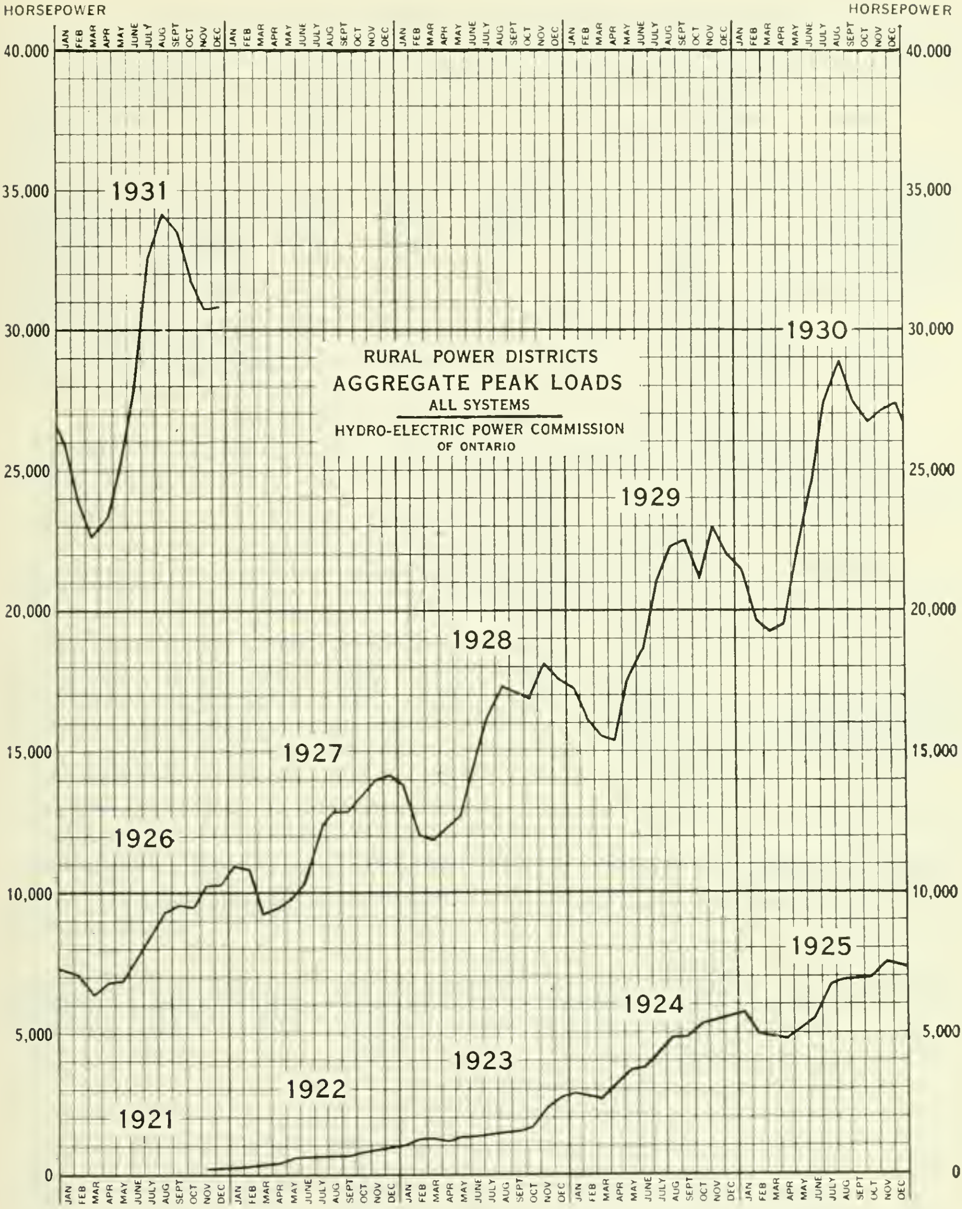
For the purpose of determining the service charge, each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The accompanying Table gives this information and shows the annual and monthly service charges appliable to each class of service. It may be stated that more than 90 per cent of the contracts entered into for farm service are either of Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

Rather more than half the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these consumers are usually in Class 1B or Class 1C. It should further be understood that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

All new rural power districts begin at standard rural rates and these constitute the maximum rates submitted to the proposed consumers. As the average



RURAL POWER DISTRICTS
TOTAL MILEAGE OF
RURAL PRIMARY LINES APPROVED
ALL SYSTEMS
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



number of consumers per mile of line increases, the service charges may be, and in practice have been, reduced; and with increased consumption the rates per kilowatt-hour are also lowered. Thus, in older-established rural power districts the total cost of service is much below the initial standard rates.

At the end of this section is given a tabulation of the rural power districts established in connection with the several systems of the Commission, which shows the miles of line, the number of consumers and the rate schedules for each district.

RURAL LINE EXTENSIONS DURING THE YEAR 1931

System	Miles of primary line	Number of consumers			Power supplied in October, 1931	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant-in-aid
						$ c.	$ c.
Niagara..........	797.97	2,583	3,025	5,608	25,099	1,735,972.89	844,706.44
Georgian Bay.....	168.67	722	363	1,085	1,750	291,019.65	145,509.82
Eastern Ontario...	267.39	1,466	625	2,091	4,873	586,341.48	293,170.74
Thunder Bay......	9.00	15	21	36	....	17,439.00	8,719.50
Northern Ontario..	5.99	54	12	66	68	13,929.00	6,964.50
Total.........	1,249.02	4,840	4,046	8,886	31,790	2,644,702.02	1,299,071.00

SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921, to October 31, 1931

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Hamlet	Farm	Total	Total	Provincial grant-in-aid
					$ c.	$ c.
Niagara...............	6,235.52	20,779	20,330	41,109	13,745,546.83	6,849,493.41
Georgian Bay..........	689.24	3,121	1,463	4,584	1,382,197.01	664,846.02
Eastern Ontario........	1,459.24	6,047	3,569	9,616	3,202,029.79	1,601,014.89
Thunder Bay..........	9.00	15	21	36	17,439.00	8,719.50
Northern Ontario......	10.99	233	23	256	33,497.00	16,748.50
Total.............	8,403.99	30,195	25,406	55,601	18,380,709.63	9,140,822.32

SERVICE CHARGES IN RURAL POWER DISTRICTS—AS AT JANUARY 1, 1930

With Provincial Grant-in-Aid—25-cycle and 60-cycle Service

Class of rural service	Units per consumer*	Approx. number of customers per mile of line	Demand allowed consumer in k-w.	Kilowatt-hours per month at first rate	Gross annual service charge	Gross monthly service charge	Net annual service charge	Net monthly service charge
					$ c.	$ c.	$ c.	$ c.
1B	2.25	6.8	0.75	30	18.00	1.50	16.20	1.35
1C	3.75	4.0	2.0	30	27.96	2.33	25.20	2.10
2A	1.90	8.0	1.0	30	20.64	1.72	18.60	1.55
2B	3.50	4.3	2.0	30	27.96	2.33	25.20	2.10
3	**5.00**	**3.0**	**3.0**	**42**	**33.36**	**2.78**	**30.00**	**2.50**
4	5.35	2.8	5.0	70	36.00	3.00	32.40	2.70
5	7.50	2.0	5.0	70	50.04	4.17	45.00	3.75
6A	12.50	1.2	9.0	126	62.04	5.17	55.80	4.65
6B	12.50	1.2	9.0	126	70.68	5.89	63.60	5.30
7A	20.00	0.74	15.0	210	92.64	7.72	83.40	6.95
7B	20.00	0.7	15.0	210	111.36	9.28	100.20	8.35

* Before a rural primary line is constructed contracts equivalent to 15 primary units per mile must be signed. (For explanation of units see accompanying text.) Thus three Class 3 consumers at 5 units each equals 15 units. Service charges are adjusted so that each class of service bears its equitable share of the cost.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes with limitations as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting..................	0.75	1	110	15
1C	" "	2	1	220/110	35
2A	House Lighting..................	1	1	110	20
2B	Small Farm Service................	2	1	220/110	35
3	**Light Farm Service**..............	**3**	**1**	**220/110**	**35**
4	Medium Farm Service............	5	1	220/110	50
5	" " "	5	3	220/110	35
6A	Heavy Farm Service..............	9	1	220/110	100
6B	" " "	9	1 and 3	220/110	60
7A	Special Farm Service..............	15	1	220/110	According to load
7B	" " "	15	1 and 3	220/110	According to load

Class I: Hamlet Service—Includes service in hamlets, where four or more consumers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

> **Class 1-B:** Service to residences or stores. Use of appliances over 750 watts permanently installed is not permitted under this class.
>
> **Class 1-C:** Service to residences or stores with electric range or permanently installed appliances greater than 750 watts. Combinations of residence and store supplied from one service shall be not less than Class 1-C. Special or unusual loads will be treated specially.

Class II-A: House Lighting—Includes service to all residences that cannot be grouped as in Class I. This class excludes farmers and power users.

Class II-B: Farm Service, Small—Includes service for lighting of buildings and power for miscellaneous small equipment and power for a single-phase motor not exceeding 2 horsepower or an electric range (motor and range not to be used simultaneously) on a small farm of fifty acres or less.

Class III: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors not exceeding 3 horsepower and electric range. Range and motor are not to be used simultaneously.

Class IV: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors up to 5-horsepower demand or an electric range. Range and motor are not to be used simultaneously.

Class V: Farm Service, Medium 3-Phase—Includes service for lighting farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or an electric range. Range and motor are not to be used simultaneously.

Class VI: Farm Service, Heavy—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Class VII: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Note: Class IIB is the service usually supplied to small farms of fifty acres or less and Class III is the service usually supplied to ordinary farms of larger size. More than 90 per cent of new contracts for farm service are in one or other of these two classes.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1931

NIAGARA SYSTEM

Rural power district			Miles of line	No. of consumers	Rural rates													
					Class and gross monthly service charge											Gross consumption charge		Prompt payment discount
					1B	1C	2A	2B	*3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
					$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Acton	N5	D1	8.63	21	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Ailsa Craig	N4	D7	5.80	16	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Alvinston	N18	D9	3.87	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Amherstburg	N15	D3	52.93	542	1.30	2.33	1.60	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Aylmer	N11	D2	112.22	580	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ayr	N12	D4	21.86	74	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Baden	N7	D1	75.98	375	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Beamsville	N1	D4	144.58	1,216	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Belle River	N15	D2	36.59	360	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Blenheim	N14	D3	57.68	300	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Bond Lake	N3	D3	140.43	1,332	1.10	1.98	1.46	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	1.5	10
Bothwell	N14	D10	34.55	130	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Brampton	N13	D2	43.77	164	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Brant	N12	D1	107.86	503	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Brigden	N18	D8	32.31	108	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Burford	N12	D2	50.35	238	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Caledonia	N2	D5	93.45	455	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Chatham	N14	D1	136.80	777	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Chippawa	N1	D7	20.41	160	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Clinton	N8	D11	64.37	329	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Delaware	N4	D3	119.19	626	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dorchester	N4	D1	108.41	565	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dresden	N14	D12	24.22	76	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Drumbo	N12	D5	50.05	245	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dundas	N2	D1	86.67	693	1.30	2.21	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.25	10
				62	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Dunnville	N1	D9	9.08	†	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10

Dutton	N11	D3	44.63	165	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Elmira	N7	D3	18.12	75	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Elora	N5	D4	44.19	248	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Essex	N15	D7	83.62	425	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Exeter	N4	D6	63.94	561	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Forest	N18	D6	36.92	137	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Galt	N6	D2	38.03	290	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Georgetown	N5	D2	48.72	242	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Goderich	N8	D2	35.26	151	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Grantham	N1	D2	56.43	753	1.00	1.50	1.25	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Guelph	N5	D3	87.72	518	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
				‡	1.20	2.15												10
Haldimand	N2	D8	48.01	241	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Harriston	N8	D5	23.17	59	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Harrow	N15	D4	66.84	588	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ingersoll	N10	D3	173.30	578	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Jordan	N1	D3	33.71	348	1.05	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Keswick	N3	D5	48.72	888	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	4	2	10
Kingsville	N15	D5	115.10	1,318	1.00	1.80	1.25	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	2	10
Listowel	N8	D8	54.50	259	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
London	N4	D2	183.51	1,961	.90	1.65	1.15	1.75	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Lucan	N4	D5	31.89	126	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Lynden	N2	D2	44.69	235	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Markham	N3	D1	98.23	737	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Merlin	N14	D15	79.95	304	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Milton	N13	D3	56.17	299	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Milverton	N8	D9	34.73	147	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Mitchell	N8	D7	65.40	328	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Newmarket	N3	D4	53.91	296	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Niagara	N1	D1	50.97	285	1.20	2.15	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.5	10
Norwich	N10	D1	102.96	438	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Oil Springs	N18	D3	17.08	110	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Palmerston	N8	D6	33.01	102	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Petrolia	N18	D5	13.96	56	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Preston	N6	D1	121.18	936	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.25	10

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*See footnote on page 79.

†Lowbanks extension.

‡Suburban area.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1931

NIAGARA SYSTEM—Continued

Rural power district			Miles of line	No. of consumers	Rural rates													
					Class and gross monthly service charge											Gross consumption charge		Prompt payment discount
					1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
					$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Ridgetown	N14	D2	92.90	703	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
St. Jacobs	N7	D2	63.05	357	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
St. Marys	N9	D1	103.62	397	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
St. Thomas	N11	D1	149.70	1,051	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Saltfleet	N17	D1	97.99	1,483	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Sandwich	N15	D1	125.92	2,127	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3.5	1.5	10
Sarnia	N18	D4	87.17	1,132	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Scarboro	N3	D2	71.24	573	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	01
Seaforth	N8	D10	18.25	146	1.10	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Simcoe	N12	D6	61.27	313	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Stamford	N1	D6	10.88	297	1.30	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Stratford	N8	D4	32.60	219	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Strathroy	N4	D4	71.24	209	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Streetsville	N13	D1	86.94	381	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Tavistock	N8	D1	68.99	275	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Thamesville	N14	D11	62.25	265	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Tilbury	N14	D14	45.10	237	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Tillsonburg	N10	D4	106.51	551	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Wallaceburg	N14	D13	80.01	521	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Walsingham	N12	D7	66.63	331	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Walton	N8	D3	38.36	238	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Waterdown	N2	D3	63.65	829	1.20	2.10	1.55	2.10	**2.50**	2.70	3.75	4.65	5.30	6.95	8.35	3	1.25	10
Waterford	N12	D3	63.39	269	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Watford	N18	D7	15.00	55	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Welland	N1	D5	263.34	2,456	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3	2	10
Woodbridge	N16	D1	176.06	905	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10
Woodstock	N10	D2	123.45	630	1.30	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10

Total, Niagara System, 5,996.14; 41,109.

*See footnote on page 79.

GEORGIAN BAY SYSTEM

Alliston	S32	D1	21.98	126	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Arthur	E13	D2	2.40	8	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bala	GB13	D1	31.76	178	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Barrie	S4	D1	52.00	393	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaumaris	M7	D1	20.48	186	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaverton	W2	D1	6.05	35	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Beeton	S33	D1	.33	1	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bradford	S37	D1	23.79	69	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bruce	E19	D1	39.35	155	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	†5 6	2	10
Buckskin	S24	D1	.94	14	1.80	3.30	2.25	3.45	**4.55**	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Cannington No. 1	W3	D1	3.46	24	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cannington No. 2	W3	D2	5.30	24	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chatsworth	E3	D1	.00	22	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Cookstown	S35	D1	.50	2	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Creemore	S10	D2	20.80	90	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Elmvale	S7	D1	25.35	151	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Flesherton	E1	D1	1.56	25	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Georgina	W2	D2	11.30	112	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Hawkestone	S9	D1	25.31	132	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Holstein	E7	D1	.70	7	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Huntsville	M2	D1	15.00	65	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Innisfil	S31	D1	24.93	364	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Lucknow	E24	D1	.10	2	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Mariposa	W9	D1	47.30	298 ‡	1.35 1.20	2.33 2.20	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Markdale	E1	D2	13.87	55	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Meaford	E14	D1	.76	4	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Medonte	S18	D1	8.37	48	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Midland	S1	D1	12.33	41	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Neustadt	E8	D1	.63	3	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nottawasaga	S5	D1	7.84	89	1.25	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Orangeville	E12	D1	19.30	62	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Owen Sound	E2	D1	1.84	18	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Port Perry	W12	D1	45.75	300	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Ripley	E24	D2	3.55	11	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Sauble	E46	D1	10.00	41	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

†Walkerton quarry section. ‡Greenbank extension.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1931

GEORGIAN BAY SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates													
			Class and gross monthly service charge											Gross consumption charge		Prompt payment discount
			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
			$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Shelburne E10 D1	6.84	24	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Sparrow Lake W1 D1	26.98	192	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Tara E15 D1	21.95	112	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Thornton S36 D1	7.50	31	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Utterson M8 D1	18.01	85	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Uxbridge W11 D1	58.86	205	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wasaga Beach S10 D1	12.82	512	1.25	3.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	2	10
Wroxeter E22 D1	34.89	268	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10

Total, Georgian Bay System, 692.78; 4,584.

*See footnote on page 79.

EASTERN ONTARIO SYSTEM

Rural power district	Miles of line	No. of consumers	1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	1st 14 hrs.	All additional	Prompt payment discount
Alexandria L15 D1	19.85	94	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Arnprior QM10 D1	4.50	44	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Belleville C38 D1	73.41	614	1.20	2.15	1.45	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Bowmanville C23 D1	26.70	116	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Brighton C6 D1	10.01	61	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Brockville L3 D1	89.36	594	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Campbellford C11 D1	22.10	77	1.20	2.15	1.50	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chesterville L5 D1	46.95	332	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cobourg C13 D1	78.54	410	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Colborne C7 D1	22.00	125	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Fenelon Falls C30 D1	18.06	116	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Iroquois L9 D1	80.89	404	Special.													
Kemptville H9 D1	5.41	40	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Kingston C44 D1	92.85	592	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Lakefield C18 D1	16.90	70	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

Lindsay	C29	D1	4.46	24	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Omemee	C26	D1	3.00	2	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Martintown	L13	D1	19.44	134	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Maxville	L14	D2	57.62	369	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	*7	2	10
																6	2	10
Millbrook	C25	D1	18.95	96	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Napanee	C43	D1	93.98	441	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nepean	T1	D1	166.67	1,009	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Newcastle	C22	D1	24.25	119	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Norwood	C31	D1	7.75	54	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Oshawa	C24	D1	91.59	1,424	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10
Perth	H2	D1	13.00	49	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Peterboro	C20	D1	55.99	972	.63	1.16	.79	1.21	**1.59**	1.66	2.01	2.57	2.91	3.81	4.62	4	2	10
Picton	C46	D1	.30	1	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Prescott	L2	D1	37.98	201	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Renfrew	QM16	D1	5.50	9	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Smiths Falls	H3	D1	47.02	301	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Stirling	C35	D1	28.96	107	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Trenton	C3	D1	41.55	193	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Warkworth	C49	D1	.33	6	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wellington	C45	D1	88.86	362	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Williamsburg	L7	D1	11.27	54	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

Total Eastern Ontario System, 1,426.00; 9,616.

*Apple Hill Section.

THUNDER BAY SYSTEM

Port Arthur	P2	D1	9.00	36	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10

NORTHERN ONTARIO SYSTEM

North Bay	Z4	D1	9.03	250	1.10	2.00	1.35	2.10	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Powassan	Z8	D1	2.00	6	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

Total Northern System, 11.03; 256.

Total, all systems: Miles of line, 8,134.95. Number of consumers, 55,601.

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

The largest single item of hydraulic work during the year was the completion, to the initial operating stage, of the Chats Falls development. The completion of such a development in two years, the time used in this instance, is exceptional, as the ultimate development is of a size that exceeds any other in the Province of Ontario, except the Queenston-Chippawa development on the Niagara river. A condition of low river flow existed throughout the construction period, both of the spring freshets being exceptionally low, and favoured uninterrupted progress.

There are four units, of 28,000 horsepower, operating at present, and work is proceeding on the installation of four more units. Headworks of the two units situated at each end of the generating station have been completed, but the units themselves, viz., No. 1 and No. 10, will not be installed until some future date, when storage work on the main river and tributaries has progressed sufficiently to assure the necessary water supply for them. An account of the progress of the work and a description of the development are given below.

One new bridge and the reconstruction of a portion of a second were two items of importance in connection with the Queenston-Chippawa development that were proceeded with during the year. The first of these is the Queen Street bridge in the village of Queenston, and the second item refers to the new approach span for the Chippawa highway bridge. In addition to these, a large number of matters of minor importance in the Niagara district received attention, among which might be mentioned the completion of work in connection with the concrete envelope around conduit No. 3 at the Ontario Power plant, with the restoration of park lands; and the improvement of the area north of the screen house at the Queenston plant by the removal of all construction plant and buildings, and the grading and seeding of the area.

In the Georgian Bay system, improvements and repairs were made at the Big Chute plant on the Severn river and at the South Falls plant on the South Muskoka river. Investigation of a number of storage sites and prospective developments proceeded.

NIAGARA SYSTEM

Queenston-Chippawa Development

At the time of construction of the Queenston-Chippawa development, the township of Niagara approved of the construction of a temporary timber structure to carry Queen street, in the village of Queenston, over the railway to the power house, on the understanding that a permanent bridge would replace the temporary structure when the useful life of the latter had ended. The condition of the bridge timbers this year was such that it became advisable to replace the whole bridge rather than to attempt to keep it in service by repairs, as these would have been very extensive. In other words, the bridge had reached the end of its useful life.

The new structure now being built has a length of 100 feet 6 inches, in three equal spans, on concrete abutments, with two intermediate structural steel bents. The deck is of reinforced concrete, and provides a 20-foot roadway and one 6-foot sidewalk. Construction work on the bridge commenced in October, and is proceeding.

Since the completion of unit No. 10, improvements have been progressing on the grounds north of the screen house, on which sand and stone storage and construction equipment and buildings had been located since the commencement of work on the development. The whole area has been cleaned up, graded and seeded, thus providing an attractive approach to the development from the north.

At the north end of the power house, the cliff was scaled, to protect the building from damage due to the falling of loose rock. Some material was removed from the tailrace of No. 10 unit, and balconies and stairways were completed.

As an unemployment relief measure, canal slopes were trimmed and improved where it was advantageous to do so, inspection and minor repairs to bridges were made, and the control gate and Chippawa highway bridge were painted. For the last-named structure also, a new approach span was designed, and repairs were made on the south abutment.

Ontario Power Plant

The construction of the concrete envelope for conduit No. 3 was completed at the end of the last fiscal year, except for back-filling and grading. Material for back-filling was obtained from the disposal area on the west side of the park, where spoil was deposited from the trench excavated for the conduit at the time of its construction. The whole area, after back-filling was completed, was graded, seeded and restored to a condition satisfactory to the Park Commission. Some relief to unemployment in the district was accorded by changing the personnel of construction gangs at stated intervals.

Decew Falls Plant—Dominion Power and Transmission System

Hydraulic tests were made on two units at the Decew Falls plant. One of the units tested was subsequently equipped with new runner and seal rings. The tests show the units to have a satisfactory efficiency. In fact, an equally high efficiency was attained in these tests as at the time of their installation. Unit No. 7, in which the new runner was installed by the Operating department, showed a gain of 5 per cent, due to the renewals, and a maximum turbine efficiency of 88 per cent, a very satisfactory result, as this unit was installed in 1903.

Chats Falls Development

The Chats Falls development on the Ottawa river, which commenced carrying commercial load in October, is unique in several respects. It is the first complete development on the interprovincial section of the river, and in point of size is among the leading plants of the country. A brief description of the hydraulic portions of the development follows.

The development is situated on the Ottawa river about thirty-six miles upstream from the city of Ottawa. At this point the river drains an area of 34,000 square miles and has an average flow of 45,000 cubic feet per second, rising in times of extreme flood to 220,000 cubic feet per second, and falling as low as 12,000 cubic feet per second. Storage works already constructed have raised the minimum flow, so that it is expected that in future the flow will never be less than 22,000 cubic feet per second. Further storage development on the main stream and tributaries will eventually make available a dependable flow of 28,000 cubic feet per second.

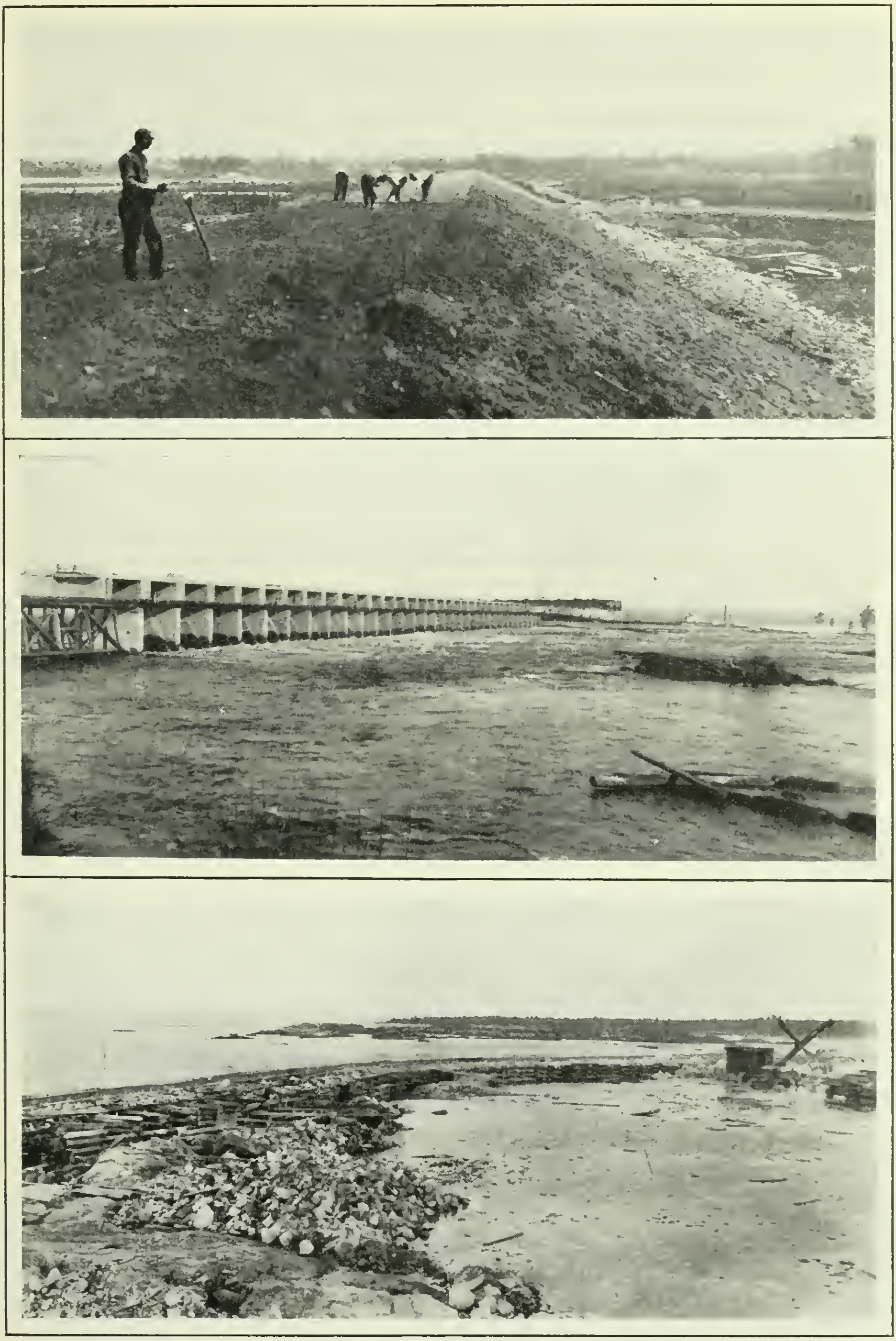
The conditions at Chats falls are particularly favourable for an economical development, notwithstanding the great length of the dam required. The river banks at the dam site being low, it was necessary to extend the wings of the dam upstream for some distance on each side. Thus the dam is "U" shaped in plan, with a crest more than three miles in length, but nowhere of great height. The average head developed is 53 feet. At high stages of river flow the head will be reduced considerably, and the operating head will fluctuate between a maximum of 58 feet and a minimum of 38 feet. The structures have been designed for a regulated water level at the plant of elevation 247, Geodetic Survey datum.

The Ottawa river in this section consists of two lake expanses, united by the narrower reach in which the falls occur. The upper one is Chats lake and the lower one lake Deschenes. Normally, the difference in elevation between these lakes was 50 feet, made up by a gradient of 12 feet in the stretch of three miles from the outlet of Chats lake to Chats falls, and a drop of 38 feet at the falls. The additional head will be obtained by raising Chats lake to the normal high water level.

A section of the Canadian National Railways, two and one-half miles long between the dam and Chats lake, was diverted further inland to escape flooding due to the raising of the water level.

Dam Structures and Control Sluiceways and Gates

The structures comprising the main dam, commencing on the Ontario shore, consist of an earth dyke, 4,500 feet long, followed by bulkhead and sluiceway sections reaching to the generating station at Mohr island. Beyond this are four sluice gates, a log slide, and again a great length of bulkhead and sluiceway section. The total length of the bulkhead and sluiceway sections is 12,100 feet. The earth dyke was constructed of clay, well compacted by rolling, and amply protected from wave action by heavy riprap. It is keyed to the concrete gravity dam by a specially designed concrete section. On the Quebec bank, which is rocky, the dam ends in a series of short low concrete walls.



CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Earth-fill dam under construction
Ragged Chute sluices from down-stream side
Cofferdam and improvements at outlet of Chats Lake

Two concrete dams, one provided with two stop-log sluices, were required to close off the Mississippi snye, a high-water channel of the Mississippi river which joins the Ottawa river near the power site.

The seventy-four sluices in the main dam on the Ottawa river are 18 feet wide, with sills 22 feet below regulated water level. They are divided into four sections, with forty-two sluices on the Ontario side of the generating station, and thirty-two on the Quebec side. Timber stop-logs are used in these sluices, and a travelling stop-log winch is provided at each section to handle the logs.

The sluice gate section immediately adjoining the power house, on the Quebec side, contains four steel gates, 25 feet high by 40 feet wide, with a timber sheeted housing on the back. These gates and also the checks in which they operate are provided with heaters to assure ease in winter operation. An intake section, with a 30-foot wide opening, has been built to accommodate a log slide.

The gravity section of the dam has a top width of 5 feet at elevation 250. The upstream face is vertical, while the downstream face is vertical down to elevation 245, and slopes at a batter of 8:12 below this point. On the upstream side the dam is provided with a railing; and lighting standards, approximately 72 feet apart, are provided from the power house to the further sluices on each side.

Channel improvements are being carried out at the outlet of Chats lake to reduce the loss between the lake and the power house, and, due to these improvements, the level of Chats lake during high floods and with the dam wide open will be lower than under natural conditions.

Headworks

The intake structure, or headworks, contains three water passages for each of the ten units. The main piers between units are 7 feet thick and 62 feet from centre to centre, while two intermediate piers, 5 feet thick, form the water passages, which are 15 feet wide and 40 feet high at the racks, the sills being at elevation 195. At the headgates this section is reduced to 15 by 23 feet.

Steel headgates of the fixed roller type, operated by cable hoists, are provided for cutting off the supply of water to the units, and checks for emergency steel gates are located between the racks and the headgates. The housing, which encloses the hoists, forms an integral part of the power house superstructure. A travelling gantry crane, operating on the deck of the headworks, is provided to handle racks, emergency gates and other equipment.

Power House

The power house is placed with the centre line on the interprovincial boundary and, as at present constructed to accommodate eight units, four on each side of the boundary, has a total length of 500 feet. For the two end units, No. 1 and No. 10, the headworks section only has been built. The substructure encloses the concrete scroll cases and elbow-type draft tubes. The floor of the scroll case is at elevation 191, and the bottom of the draft tube outlet is at elevation 156.25. The throat of the draft tube has a diameter of 16 ft. 3 in., and its section gradually changes to form two rectangular openings, 24 feet wide and 17½ feet high, separated by a central pier 6 feet thick. Piers, 8 feet in

CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Ragged Chute sluices from up-stream side of dam looking towards power house

thickness, divide the units. The draft tubes project 30 feet beyond the downstream wall of the power house, and the piers are carried up to elevation 200, where they are spanned by a concrete deck carried on steel beams. Checks for steel gates are provided for unwatering the draft tubes.

CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Forebay from the Quebec side showing entrance to log-slide at left, sluice-gates and power house headworks

In the upper part of the substructure, at elevation 212, two air ducts serve to convey the necessary cooling air to the generators. These ducts have six openings per unit in the downstream wall of the substructure, each opening being 5 feet by 7 feet. Openings are also provided in the generator floor, with louvres to regulate the air circulation.

The main operating floor of the power house is at elevation 221, and is 47 feet wide and 496 feet long, with the units spaced at 62-foot centres. On the upstream side of the generators, adjoining the intake structure, there are three gallery floors, 20 feet wide, located respectively at elevations 223, 236 and 252. These galleries serve to accommodate all auxiliary and service equipment, low tension switchgear, control room and offices.

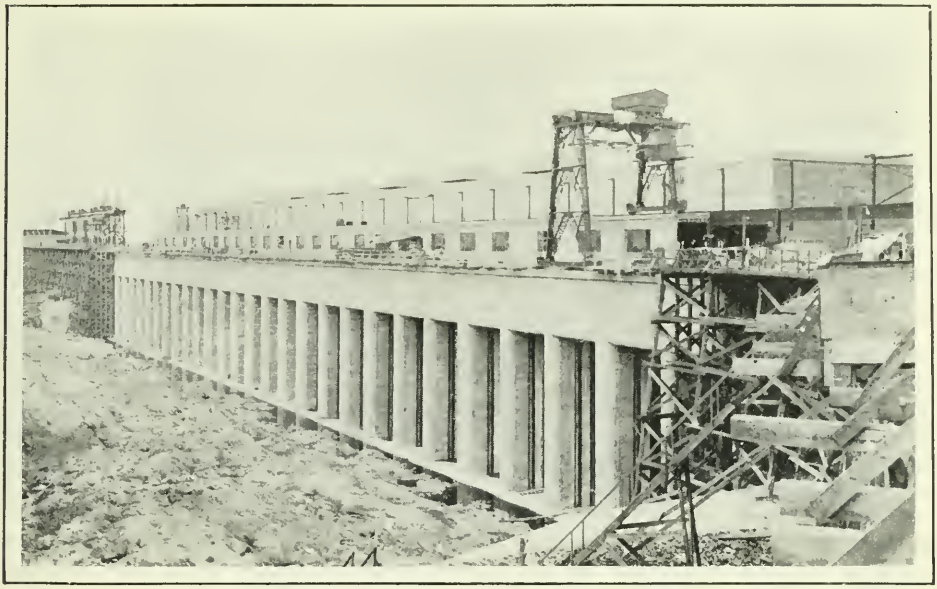
The hydraulic equipment consists of eight vertical turbines, rated at 28,000 horsepower, 125 r.p.m. under 53-foot head, with propeller-type runners. Each machine is supplied with a Morris-Pelton electrically controlled governor, which is set on the main floor upstream from, and in between, the generators. The governors are provided with individual oil pumps, accumulator tanks and sump tanks, which are located on the gallery floor at elevation 223, and the units are interconnected in pairs with ample capacity to insure against shutdowns.

Construction Features

In the construction of the project, two features peculiar to the site were the diversion of large volumes of water during construction, necessitating numerous and long cofferdams, and the construction of a concrete dam of great length. The diversion of the water was simplified by the large number of islands and rock ridges scattered in the river channel, by the comparatively shallow depth of water, and by the fact that in most cases no pumping was required, as the natural drainage behind the cofferdams provided disposal for the leakage. In the case of the tailrace cofferdam, where depths up to 25 feet were encountered, it was necessary to use steel-sheet piling to secure tightness in the deep section.

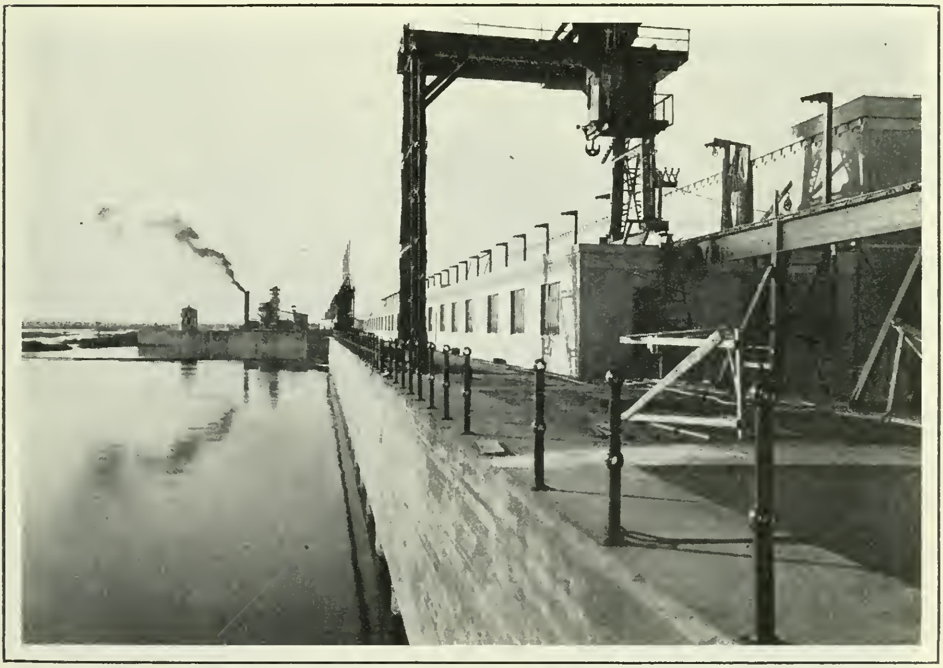
The concrete mixing plant, operating two 2-yard mixers, was centrally located on Mohr island, close to the power house site. The sand for aggregate was brought from a pit about forty miles away, and stored in bins. The stone for aggregate was crushed from the rock obtained in the excavation for the power house, and stored in a rock pile. The mixers delivered the concrete to heavy or light trains, made up of dump cars on standard and narrow-gauge track drawn by steam and gasoline engines, respectively. The distributing tracks were laid on a light timber trestle, which ran the full length of the dam and power house on the upstream side, and the concrete was placed from the cars by means of chutes.

At the beginning of the year the work on the diversion of the Canadian National railway was under way, some work had been completed on the earth dyke, as well as a considerable part of the bulkhead sections of the dam. About one-half of the Ragged chute sluices was finished, as well as most of the work of the Wolverine sluices and of the sluice gate section, and concreting had commenced on the power house substructure. This brief summary, however, does not indicate the extent of the work done during the previous year, including, as it did, a great amount of work on construction railway, construction camps, cofferdams, clearing and excavation.



CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Power house from up-stream side showing forebay before admission of water



CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Forebay and power house headworks

Work proceeded rapidly during November and December, 1930, on the Quebec section of the dam, cofferdamming, rock excavation and concreting all being in progress at the Merrill island sluices and on Conroy island. The Merrill island sluices were completed, except for the deck, in December, when concreting operations were suspended for the winter. Of the seventy-four stop-log sluices, sixty-four were completed by the end of December, and more than 7,000 feet of bulkhead and sluiceway sections combined, 100,600 cubic yards of concrete having been poured in this part of the work. Power house construction had also proceeded rapidly in these two months, 30,000 cubic yards of concrete having been poured in headworks, floors and piers, draft tubes and other parts of the substructure. Three of the sluice gates were erected in place.

Throughout the winter months, work was concentrated largely on the power house, the last piers of the power house headworks being completed in March, and turbine erection proceeded. During January, the sites of the Mississippi dams were cleared and, with the return of favourable weather in April, the building of these dams commenced. Work was recommenced at this time also on the earth dyke.

The diversion of the Canadian National railway was completed and came into service on June 23. In the same month, concreting operations were recommenced on the main dam. The month of August saw the practical completion of the main dam, earth dyke and Mississippi dams, and the improvement of the channel approach to the forebay at the end of Mohr island. The force organized to build the Mississippi dams was moved on their completion to Lavergne point, and commenced work on the construction of a channel to improve the outlet of the lake. A cofferdam was built to unwater the area to be improved, and work commenced on the excavation of all rock down to elevation 235 for a distance of about 500 feet from the shore. This work will permit the level of Chats lake to be maintained at, or below, its natural level for normal operating headwater levels at the power house, which are above the natural levels there. Tree growth and debris were removed from islands in this part of the river, where they would have a tendency to retard flow during flood periods.

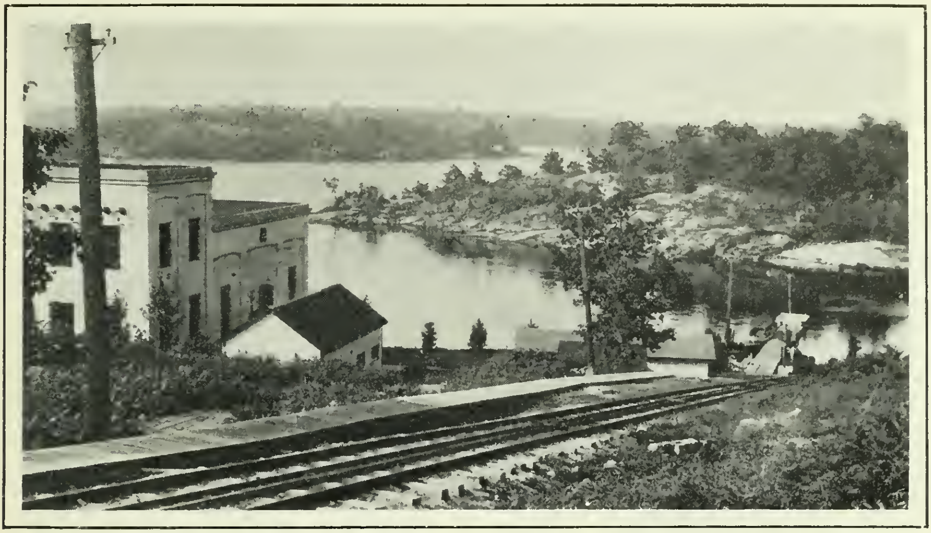
On September 15, the cofferdam above the power house was partially removed, and water rose above the sills of the power house intake. On the 17, the tailrace cofferdam was blown out. Units Nos. 2 and 3 were started on September 26 and completed their dry-out runs on October 5.

Headwater level was held below the normal operating head, to facilitate work at the outlets of Chats lake, on the Canadian National railway bridge piers, and at various places on the dam. Four units were in operation at the end of the fiscal year. Work is proceeding on Units Nos. 6 to 9, which will come into service in a year's time.

GEORGIAN BAY SYSTEM

Big Chute Development

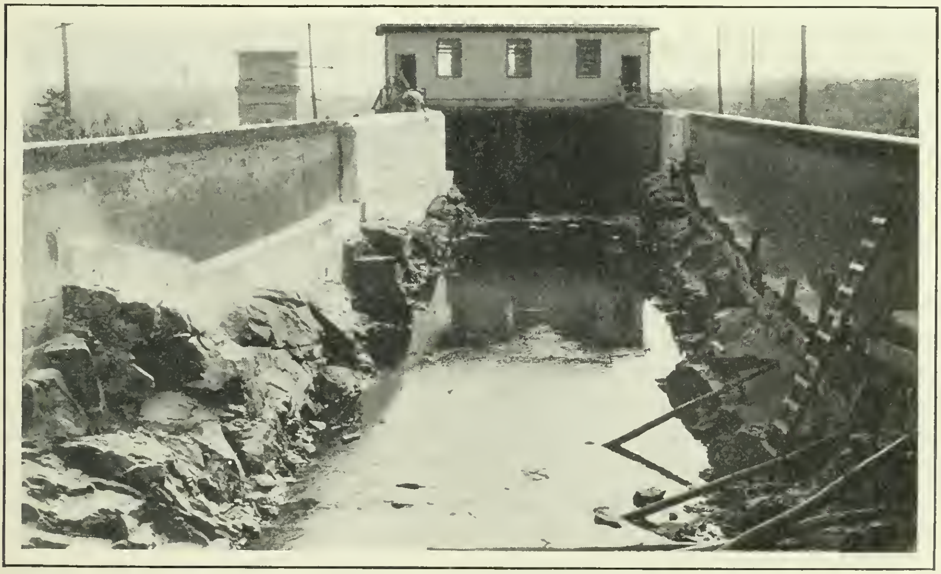
Repairs were made to the power canal at this plant during the summer of 1931. The canal is formed partly by excavation in rock and partly by gravity side-walls on top of the rock. Leakage was occurring through seams in the rock and through construction joints in the concrete, and required that special



BIG CHUTE POWER DEVELOPMENT—SEVERN RIVER

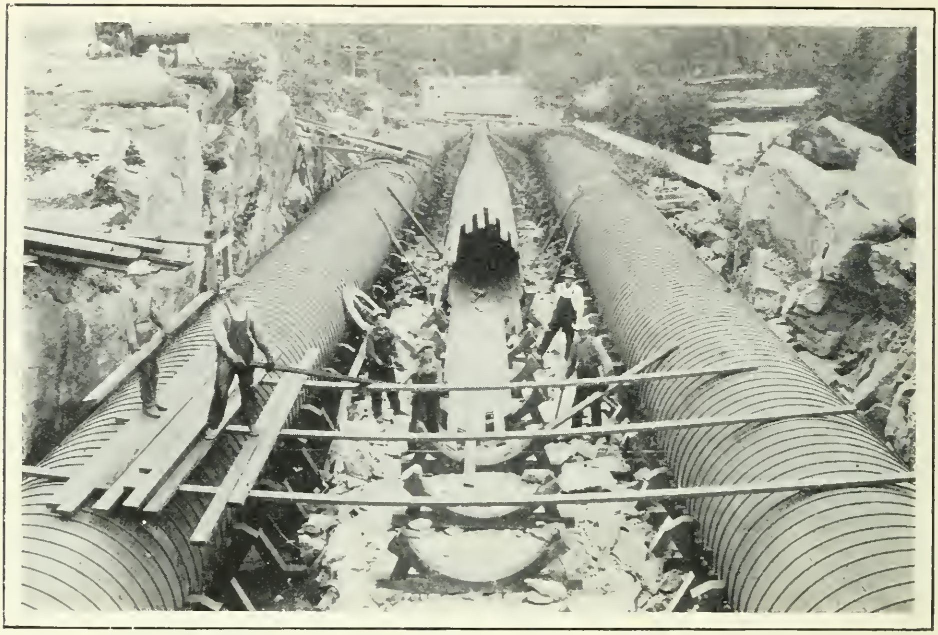
View looking downstream showing power house on the left

attention be given to maintenance along the penstocks and near the power house. A waterproof concrete membrane was built along parts of the walls, and the rock surfaces were treated with gunite. The plant was shut down and the canal dewatered only on five successive Sundays, as it was necessary that load be carried on the remaining six days of the week.



BIG CHUTE POWER DEVELOPMENT—SEVERN RIVER

Canal improvements. The new work is plainly visible along both walls. Note the rough rock along each side of the canal below the walls



SOUTH FALLS DEVELOPMENT—SOUTH RIVER, NIPISSING DISTRICT
Reconstruction of wood-stave penstock No. 2

South Falls Development

It became necessary to replace wood-stave penstock No. 2 at this plant. The penstock was built in 1917 in connection with the addition of a 1,000 horsepower unit at that time, and is 960 feet long and 5 feet in diameter. The reconstruction involved careful rock excavation and difficult handling of material, as penstocks 1 and 3 on either side had to be kept in service during the replacement of No. 2. At the same time, attention was given to the foundations of saddles on the other penstocks.

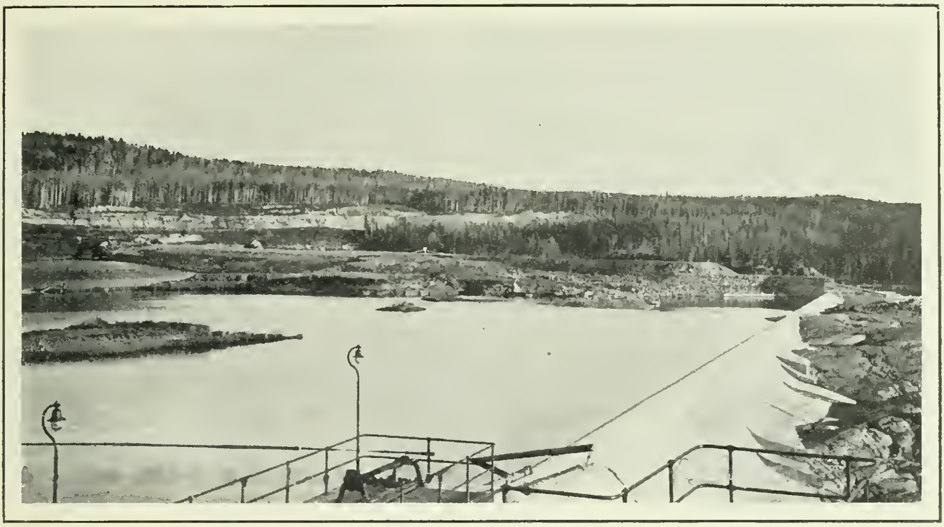
A waterproof membrane of concrete was applied to the face of the dam at Hollow lake. This lake, on an upper tributary of the South Muskoka river, serves as a storage reservoir for the South Falls plant.

THUNDER BAY SYSTEM

Alexander Power Development

Reference was made in the last annual report to the commencement of operation at the Alexander development, which carried commercial load for the first time on October 21, 1930. In order to complete various details of the plant, there remained a considerable amount of work to be done, viz., painting, grading of grounds and restoration of the areas occupied by construction buildings.

Hydraulic tests were made on the turbine equipment in March. The turbines, made by the S. Morgan Smith-Inglis Company, Toronto, were found to exceed the manufacturer's guarantees at all points, their maximum output at rated head being 18,300 horsepower, or 300 horsepower more than guaranteed, and their maximum efficiency 92.8 per cent.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Main dam and spillwall

A brief outline of the scheme of development was included in the twenty-second annual report (1929). A description, in greater detail, of the completed development is appended.

The development is situated on the Nipigon river, about one and one-half miles downstream from the Cameron falls development. Operation of the latter plant commenced in 1919, with two units, of 12,500 horsepower capacity each, in service, and the plant was completed by 1926, four similar units being added during the intervening seven years. Between that time and 1930, when the Alexander development came into service, the Cameron Falls development was at times severely taxed to supply the power demands of the system, the maximum output sometimes exceeding the rated capacity of the development. The completion of the Alexander development was thus very desirable.

At the site of the development, the course of the river followed two sharp bends, thus forming two narrow peninsulas, across one of which a short power canal was excavated, which served, during the period of construction of the main dam, to carry the whole flow of the Nipigon river, and now conducts water to the forebay of the plant. Over the whole of the surface of the peninsula there was only a light overburden of earth, and the quality of the underlying rock was such as to provide unexcelled foundations for power house and spillway. The power house is on the downstream side of the peninsula, and to the right of it looking downstream is a concrete bulkhead section of the dam, and then a low earth-fill dam, with clay core and cut-off trench, extending about 1,500 feet to the point where the natural surface of the ground is at elevation 678, or 5 feet above maximum headwater level.

On the left of the power house, looking downstream, are, in order, a fishway, a log chute and a spillway, the last named being 525 feet long. No sluiceways are provided, the spillway capacity being sufficiently great to care for the maximum river flow. Beyond the spillway is the main dam, extending across the original river channel to high ground on the east bank. Borings in the river revealed a lack of rock foundation for the dam at reasonable elevation, and a semi-hydraulic fill structure was therefore built. The material for this was obtained close by on the east bank of the river, was taken to the sides of the dam in dump trains, and sluiced thence by monitors into the central pool of the dam to form the impervious core. The rock excavated from canal and power house site was used to form the toe fill of the dam, and the amount was such that an unusually heavy toe was built. The main dam contains in all about 800,000 cubic yards of fill.

At the junction of the concrete and earth sections of both auxiliary and main dams, specially designed abutments were built. They are confined to the core area and have a batter of 5:12 on the face adjacent to the core, to compensate for vertical shrinkage of the core material and for the tendency of the core to shrink away from a vertical face. A year's service indicates that satisfactory results are obtained at the junctions and throughout the earth fills, no leakage being observable.

A material saving was effected in the cost of the development by the omission of the headworks superstructure, heretofore generally provided to house the travelling crane for handling stop-logs, gates and racks. A low passageway, along the rear of the headworks deck, houses the headgate hoists. For the usual travelling crane, a locomotive crane is substituted, housed elsewhere, and made available for various other services. All openings in the headworks deck have removable matched plank covers, made in sections for quick handling, and, through openings behind the headgate guide checks, warm air is admitted from the generator room to the area below the deck. Complete freedom from ice troubles was experienced throughout the first winter of operation.

On the upstream side of the headworks is a curtain wall extending to below minimum headwater level, and immediately behind this wall are the racks protecting openings 34 feet high and 18 feet wide, two for each unit. Checks for emergency gates are constructed immediately behind the racks. The service gates, 19 feet by 19 feet 5 inches, are motor operated, are equipped with fixed rollers, and are at the entrance to the short concrete supply pipes leading to the concrete scroll case. Two supply pipes serve each unit. Three units are installed and operating, and headworks are built for a fourth. The turbines are vertical, Francis type, single runner units with elbow type draft tubes, each rated at 18,000 horsepower at 100 r.p.m. and 60-foot head. Reference is made elsewhere to the fact that they exceed the maker's guarantees. They are controlled by Woodward oil-pressure governors, with motor-driven flyballs, an automatic speed matcher for synchronizing, and equipment to permit remote control of the unit.

Cameron Falls Development

A new steel bridge, on concrete piers, was built across the Nipigon river, to carry the railway spur into the power house. This replaces the temporary structure erected at the time that construction of the plant began.

ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

General view of development from downstream side. Cameron Falls power house can just be distinguished in the distance

HYDRAULIC INVESTIGATIONS

Detail plans of alternative sites of Bala No. 3 development were prepared, and preliminary layouts and estimates of cost commenced. There are two developments at the outlet of lake Muskoka, which were purchased in 1929. The new development will have a capacity of about 5,000 horsepower under a 19-foot head.

The site of a storage dam at the outlet of Ivanhoe lake, near Foleyet, was examined for the Department of Northern Development and certain recommendations made regarding construction procedure.

Field investigations were made and plans and estimates prepared looking to the raising of Kaminiskeg lake on the Madawaska river two and one-half feet for storage purposes. Local interests co-operated with the Commission in this work.

Investigations were made of two possible power concentrations of 12 and 14 feet at dams 4 and 5 on the Otonabee river, adjacent to locks 23 and 22, respectively, on the Trent canal system. Field inspections were made at the sites and preliminary layouts and estimates commenced for single-stage and two-stage developments.

Arrangements were made with the Dominion Government whereby the Dominion Water Power and Reclamation service continues certain stream measurements that, under their policy of reduction of this work, would otherwise be discontinued. The Commission is vitally interested in the results of this work, and is to pay a share of the cost of certain parts of it.

Studies continued on certain features of the development of the St. Lawrence river powers, and a number of conferences in connection therewith were held with officials of the Dominion Government and of the state of New York.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

NIAGARA SYSTEM

Generating and Switching Stations

Generating Stations on the Niagara River—Nineteen 110,000-volt potential transformers were purchased with other necessary equipment for the installation of high-speed relaying of the high-voltage lines at Queenston generating station. This equipment was placed in service in December, 1930 and has operated successfully to localize troubles and reduce the shocks to the system at time of trouble. Studies on the installation of similar relay equipment at other points on the system are being made. Improvements were made to the interior lighting at Queenston generating station.

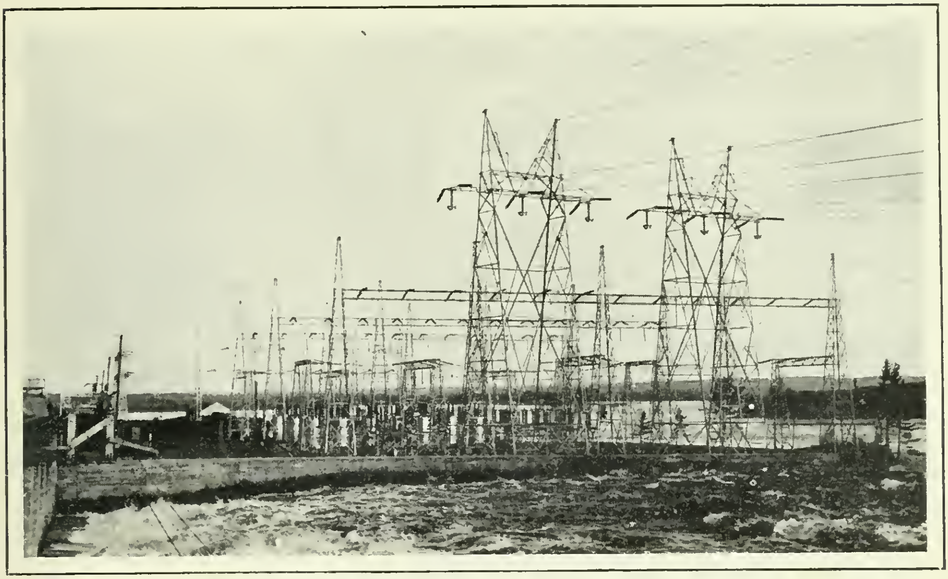
Chats Falls Development—Engineering work on the electrical installation and superstructure of the generating station of the Chats Falls development has been carried on for the Chats Falls Executive Board. This station is situated on the Ottawa river near Fitzroy and consists of a concrete and steel building to house eight 23,500-kv-a., 13,200-volt, 25-cycle, 125-r.p.m. vertical-shaft generators and the switching and control equipment.

The building for eight generators has been erected. Four generators together with their control and switching equipment have been installed this year, and the first two units were ready for test run on October 25, 1931. The second two units will be similarly ready during November, and the remaining four will be installed during 1932. Provision has been made for extending the building to accommodate two additional units.

The 13,200-volt switching equipment and busses are of metal-clad construction. Single-conductor, paper-insulated, lead-covered cables are used for the connections from generators to the metal-clad busses and to the transformers.

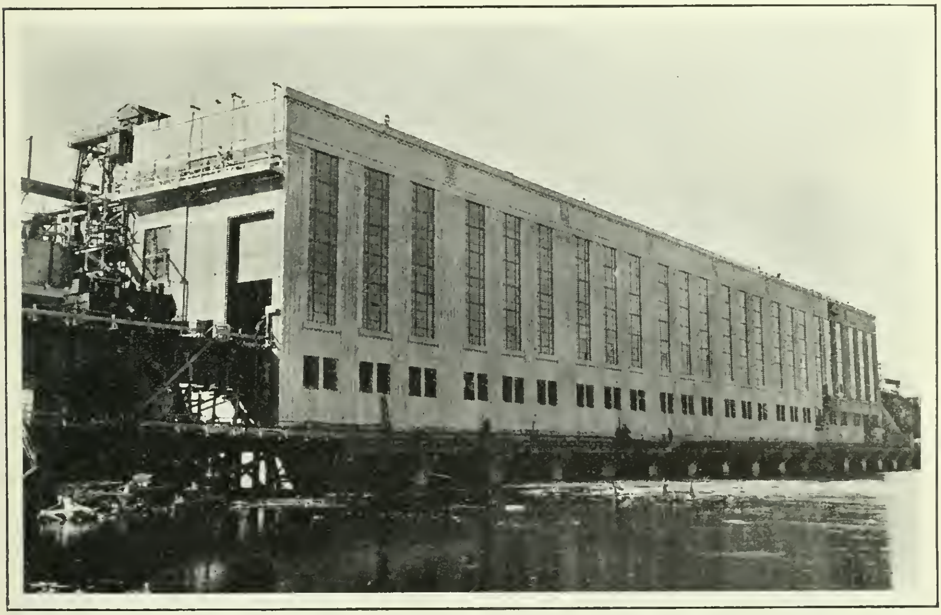
A pair of generators and one transformer bank will be operated as a group and no provision is made to parallel these groups on the 13,200-volt side.

The station-service power is obtained from two banks of three 500-kv-a., 13,2001/575-volt transformers connected to the 13,200-volt busses.



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

Switching structure—220,000 volts



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

Exterior of power house from down-stream side

(For interior view see Frontispiece)

Beauharnois and MacLaren Developments—Further engineering conferences were held, in co-operation with the engineers of the Beauharnois Light, Heat and Power Company, and of the MacLaren Corporation, relative to the design of their respective generating stations in accordance with provisions in the power contracts.

Victoria Island Inter-switching Station—An inter-switching station is being installed on Victoria island approximately one-half mile from Chats Falls for the purpose of connecting a 220,000-volt circuit from Chats Falls transformer station to one of the Paugan-Leaside circuits. Hand-operated disconnecting switches are being employed and three oil-insulated current-transformers for 220,000-volt service will be installed to provide automatic relay protection for the circuits. The installation is complete except for the current-transformers.

Hastings Switching Station—A switching station was erected and placed in service near Bannockburn for sectionalizing the three 220,000-volt lines from Toronto-Leaside transformer station to Paugan and Chats Falls transformer station. The installation includes seven 220,000-volt disconnecting switches mounted on steel structures and electrically controlled. A patrolman's house is located at the site.

Transformer and Distributing Stations

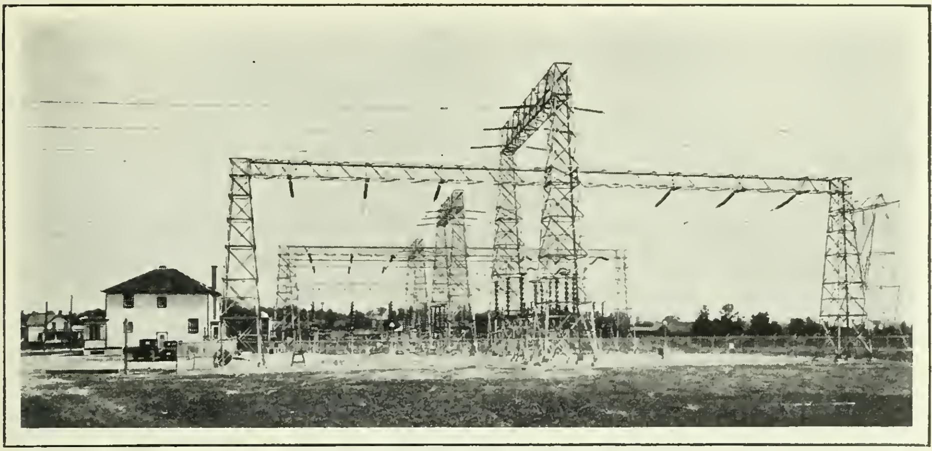
Chats Falls Transformer Station—This station receives the power from Chats Falls development at generated voltage and transforms it to 220,000 volts for transmission to Toronto. The present installation will consist of four banks of transformers and two outgoing lines, with provision for an additional bank and outgoing line. The complete structures and busses for four banks have been erected and two banks with their switching and control equipment have been installed this year, the third and fourth banks will be installed in 1932. The initial installation was tested out on October 25, 1931.

Niagara District—High-speed relaying was installed on two high-voltage lines at Niagara transformer station as was done at Queenston generating station. Six 135,000-volt oil circuit-breakers of high-rupturing capacity were installed in the high-voltage lines and two old breakers removed. A 110,000-volt outdoor bus was erected, and all the equipment placed in service during the year at Niagara transformer station. The cooling-water system for the transformers was also improved.

Improved 12,000-volt metering equipment was installed in the Ontario Paper Company's plant at Thorold, in the Niagara Falls Waterworks filtration plant at Chippawa, and in the Page Hersey Company's plant at Welland.

Hamilton and Dundas District—The Hamilton-Stirton transformer station and the new 110,000-volt line feeding it from Hamilton transformer station referred to in last year's Report were placed in service in December, 1930. At Dundas transformer station ten 110,000-volt oil circuit-breakers were fitted with the new type of contacts for improved performance, and equipment was installed for high-speed relaying on six 110,000-volt lines.

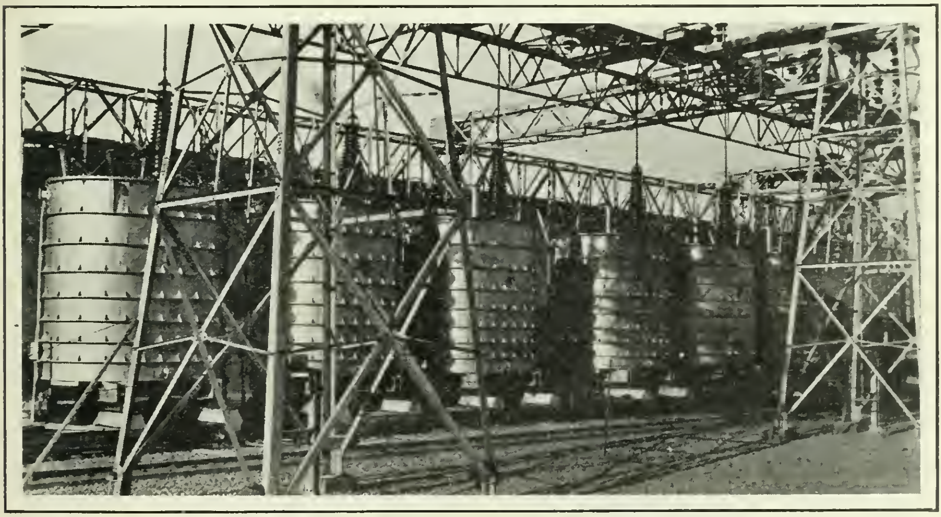
Metering equipment was installed in the Canadian Gypsum Company's plant near Hagersville.



HYDRO 220,000-VOLT TRANSMISSION LINES
Hastings switching station

Metering equipment was installed at Bartonville inter-switching station, at the steam plant, at Victoria station and at Beach station at Hamilton, to measure the power supplied from the Dominion Power system to the city of Hamilton.

Toronto and York District—At Toronto-Leaside transformer station the work in progress referred to in last year's Report has been completed and the equipment placed in service. The capacity of the station was further increased this year by the purchase and installation of two additional 45,000-kv-a.



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER
Transformer banks—capacity 47,100 kv-a.

transformer banks Nos. 5 and 6, three 220,000-volt and two 110,000-volt oil circuit-breakers and the necessary steel structures supporting the busses.

At Toronto-Bridgman-Davenport transformer station the installation of a bank of three 10,000-kv-a. transformers with spare unit, mentioned in last year's Report, was completed. A second bank has also been installed using the remaining three 10,000-kv-a. units which were purchased at the same time. When the latter bank was installed, three 5,000-kv-a. transformers were released for use at other stations on the system.

At New Toronto distributing station the 3,000-kv-a. transformer mentioned in last year's Report was placed in service in December, 1930. Another transformer of the same capacity was purchased and will be installed next year replacing an existing 1,500-kv-a. unit.

A new outdoor station, known as North Yonge auto-transformer station, was erected on the same site as the new Willowdale distributing station, about two and a half miles north of Toronto's city limits, to transform the voltage on the north Yonge street lines from 13,200 to 26,400 volts and give improved service to the district north of Toronto. Two 5,000-kv-a. three-phase, auto-transformers equipped with special regulating taps were purchased and, with the necessary switching equipment, were installed and placed in service in June.

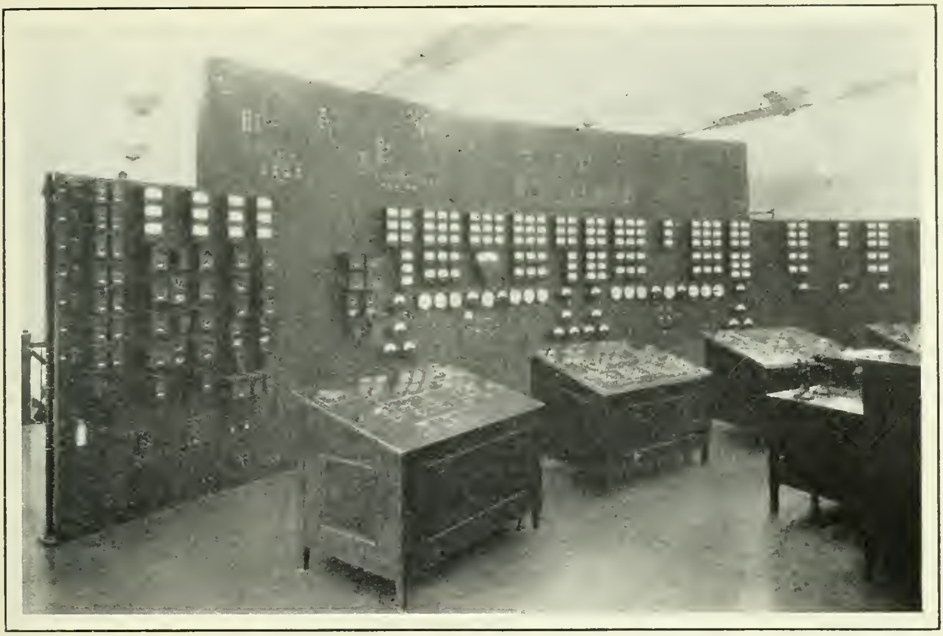
Willowdale distributing station was erected to supply the district surrounding Willowdale and relieve some of the load on York Mills distributing station. A 1,500-kv-a. three-phase transformer was transferred from system reserve and installed outdoors together with the 13,200-volt switching equipment. The 4,000-volt equipment was installed in the space provided by North Yonge Radials in their adjacent building. The Keswick, Mount Joy, Sharon and Auora distributing stations, which were operating at 13,200 volts, were changed to 26,400-volt operation, as these now receive power through North Yonge auto-transformer station.

The old Newmarket distributing station was dismantled and a new station erected using three 500-kv-a. single-phase transformers. The transformers in the old station were transferred to system reserve. Richmond Hill distributing station, Sutton distributing station and Pottageville distributing station were erected during the year. The first is a semi-outdoor installation with three new 500-kv-a., single-phase transformers, while the latter two are pole-type construction using respectively three new 250-kv-a. units and three 75-kv-a. units obtained from system reserve.

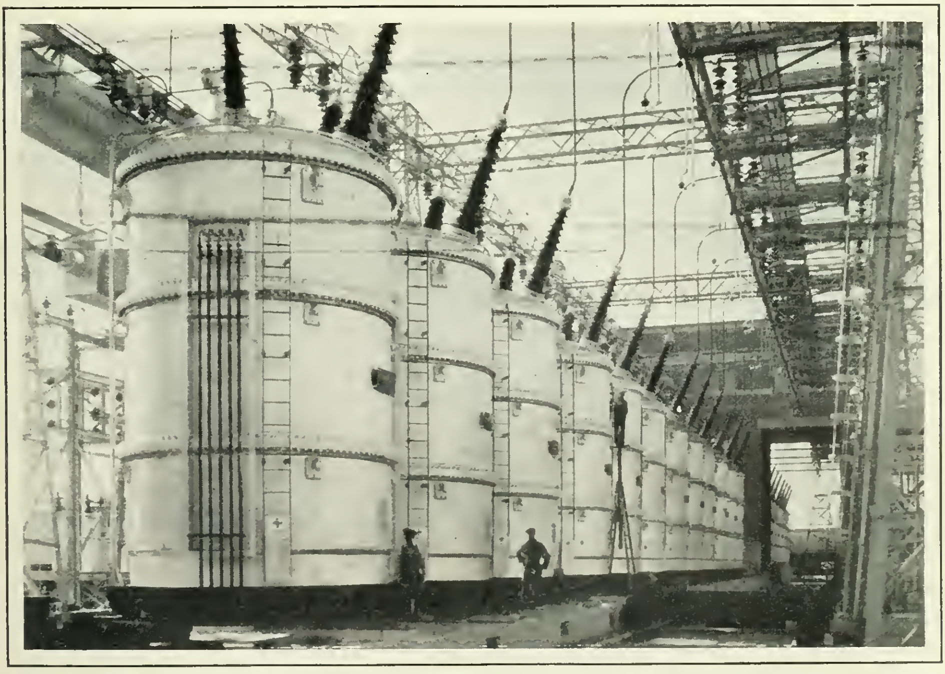
At Scarborough Township distributing station an additional 4,000-volt feeder was installed. Bond Lake distributing station was dismantled and the seven 300-kv-a. transformers transferred to system reserve. The district previously supplied from this station is now supplied from the new distributing stations at Richmond Hill and Pottageville.

Graphic meters were installed in the Toronto Hydro-Electric System's Glen Grove sub-station on the 13,200-volt feeder supplying North Yonge auto-transformer station.

London District—At London transformer station a new control room is being erected as an extension to the building. A cooling pond is being built and additional water pumps installed with the necessary piping. Provision is being made for additional feeders and the relaying of the Municipal feeders is being improved. This work should be completed early next year.



TORONTO—LEASIDE TRANSFORMER STATION
Control room



TORONTO—LEASIDE TRANSFORMER STATION
Six 45,000-kv-a. transformer banks

Guelph District—At Guelph transformer station the installation of the second bank of three 2,500-kv-a. transformers and the other work mentioned in last year's Report was completed.

Guelph rural distributing station, using three 150-kv-a. single-phase transformers released from Fergus distributing station, was erected on Guelph transformer station site and placed in service in June. The capacity of Fergus distributing station was increased when the three original 150-kv-a. transformers were replaced by three new 500-kv-a. units and a new oil circuit-breaker with other necessary switching equipment installed.

Kitchener District—In Elmira distributing station a rural feeder was installed. Waterloo rural distributing station was erected north of Waterloo to feed the surrounding district. Three 150-kv-a. single-phase transformers were purchased for this installation.

Stratford District—Tavistock distributing station low-voltage bus was changed from 575 to 4,000-volts.

Brant District—The capacity of both Drumbo and Burford distributing stations was increased by the installation of three 150-kv-a. single-phase transformers in each station replacing 75-kv-a. units which were transferred to system reserve. Three transformers released from Preston rural distributing station were rebuilt and used at Burford, while the transformers used at Drumbo were previously released from Walkerville rural distributing station.

Essex District—At Essex transformer station the installation of the fourth bank of three 5,000-kv-a. transformers mentioned in last year's Report was completed and the bank was placed in service in November, 1930.

At Kingsville a new semi-outdoor distributing station was built with provision for two banks of transformers. One bank of three new 500-kv-a. units and its 26,400-volt switching equipment were installed outdoors, and the 4,000-volt equipment was placed in a brick building. The old station was dismantled and some of the equipment used in the new station. The six 75-kv-a. transformers which were released were transferred to system reserve.

The capacity of Essex distributing station was increased by the installation of a bank of three 300-kv-a. transformers replacing three 150-kv-a. units. Comet distributing station was installed and placed in service, using three 150-kv-a. transformers released from Essex distributing station.

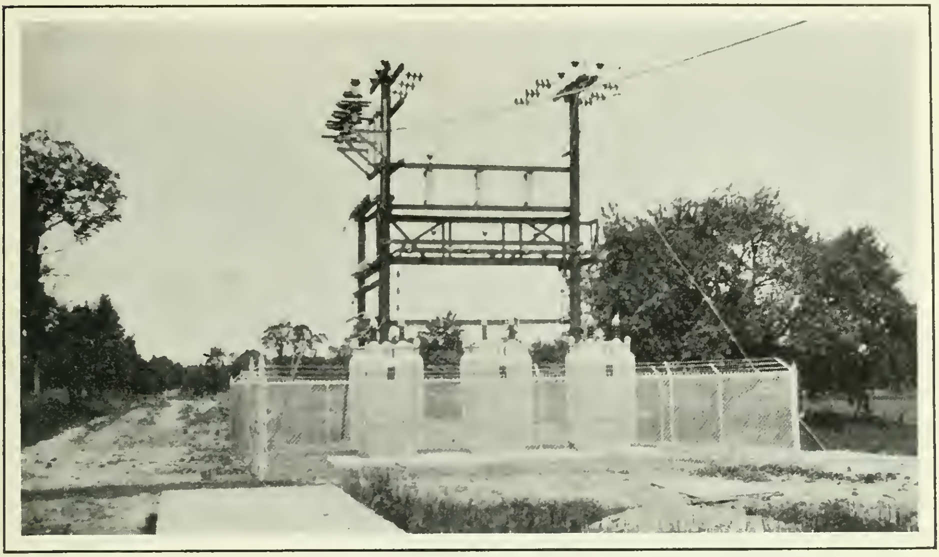
In Riverside distributing station a 75-kv-a., 4,000-volt regulator was installed on the Tecumseh and St. Clair-Beach feeder.

At Riverside, Sandwich and East River distributing stations emergency busses were installed.

Engineering assistance was given to Windsor Hydro-Electric System in the purchase of an additional 3,000-kv-a. transformer, two 100-kv-a. induction-regulators and electrical equipment for its municipal station No. 3.

St. Clair District—Sarnia Beach rural distributing station was erected using one outdoor bank of three new 150-kv-a. transformers.

A 1,500-kv-a. three-phase transformer and the necessary switching and feeder equipment were purchased and installed for the Sarnia Hydro-Electric System in its municipal station No. 2.



SUTTON DISTRIBUTING STATION

GEORGIAN BAY SYSTEM

Severn District—Midhurst distributing-station capacity was increased with the installation of three new 100-kv-a. single-phase transformers replacing the 75-kv-a. three-phase unit which was transferred to system reserve. At Fergusonville distributing station a second 50-kv-a. single-phase transformer obtained from system reserve was installed. Painswick distributing station, with a bank of three new 100-kv-a. transformers, was erected south of Barrie to supply power to that district. At Innisfil distributing station a new bank of three 150-kv-a. transformers was installed and the original two 50-kv-a. units were transferred to system reserve.

At Beeton distributing station improvements were made to the structures, equipment and site. At Stayner distributing station a bank of three new 250-kv-a. transformers arranged for 8,000-volt distribution was installed, replacing three 100-kv-a. units which were operating on 4,000-volt distribution. The feeder supplying Creemore was changed from 4,000 to 8,000 volts and the bank of three 75-kv-a. transformers which previously stepped the voltage up to 8,000 on the Wasaga-Beach feeder is now operating to step the voltage down to 4,000 volts on the feeder supplying Stayner distribution system. At Barrie distributing station a spare 1,000-kv-a. transformer was purchased and installed.

Eugenia District—Wiarton, Port Elgin, Paisley and Hepworth outdoor distributing stations were erected during the year. Three new 150-kv-a. transformers were installed at Wiarton and three 100-kv-a. units at Port Elgin. The three 50-kv-a. transformers released from Beaumaris distributing station were used at Paisley and two of the same capacity were transferred from system reserve for installation at Hepworth. A station was also erected on the Southampton generating station site to tie in the latter with the Eugenia district. A bank of three 150-kv-a. transformers was purchased for this installation. Improvements were made to the equipment and site at Elmwood and Kilsyth distributing stations.

Wasdells District—At Beaverton distributing station three 100-kv-a. single-phase transformers removed from Stayner distributing station were installed indoors to operate in parallel with the existing bank. At Wasdells generating station an oil circuit-breaker was installed in the 2,300-volt Sparrow Lake feeder.

Muskoka District—At Beaumaris distributing station a bank of three new 150-kv-a. transformers was installed, replacing three 50-kv-a. units which were transferred to Paisley. At Wasdells auto-transformer station a three-phase, 38,000-volt surge absorber was installed in the line.

Bala District—At Bala generating station more suitable meters were installed and changes were made in the switching arrangement and telephone equipment.

EASTERN ONTARIO SYSTEM

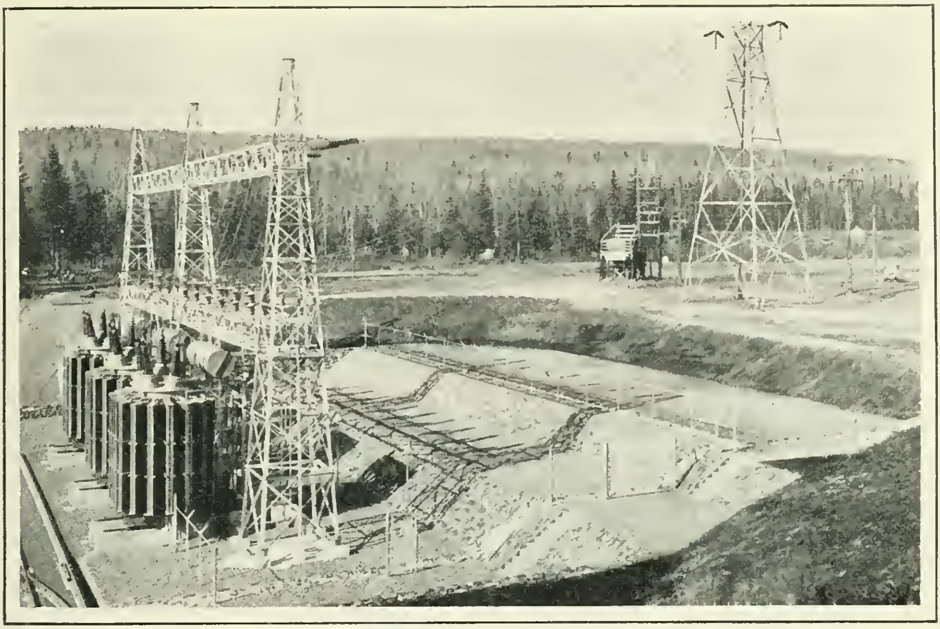
110,000-volt Transformer Stations—Three of the 5,000-kv-a. transformers and their under-load tap-changing equipment in service at Smiths Falls transformer station were removed to Kingston where they were installed in the Frontenac transformer station to increase the power supply to the Central Ontario System.

The fourth 5,000-kv-a. transformer was left at Smiths Falls where it was banked with four 1,250-kv-a. units, transferred from Cornwall, using two in parallel in each of the other two phases.

Central Ontario District—At Colborne distributing station a third 100-kv-a. transformer was installed and connected in with the two existing units to form a three-phase, 300-kv-a. bank. Near Napanee a 300-kv-a. station was erected to supply power to the surrounding rural district. Three 100-kv-a. transformers were purchased for this installation. At Warkworth distributing station a 100-kv-a. transformer was transferred from system reserve and installed, replacing the 50-kv-a. unit.

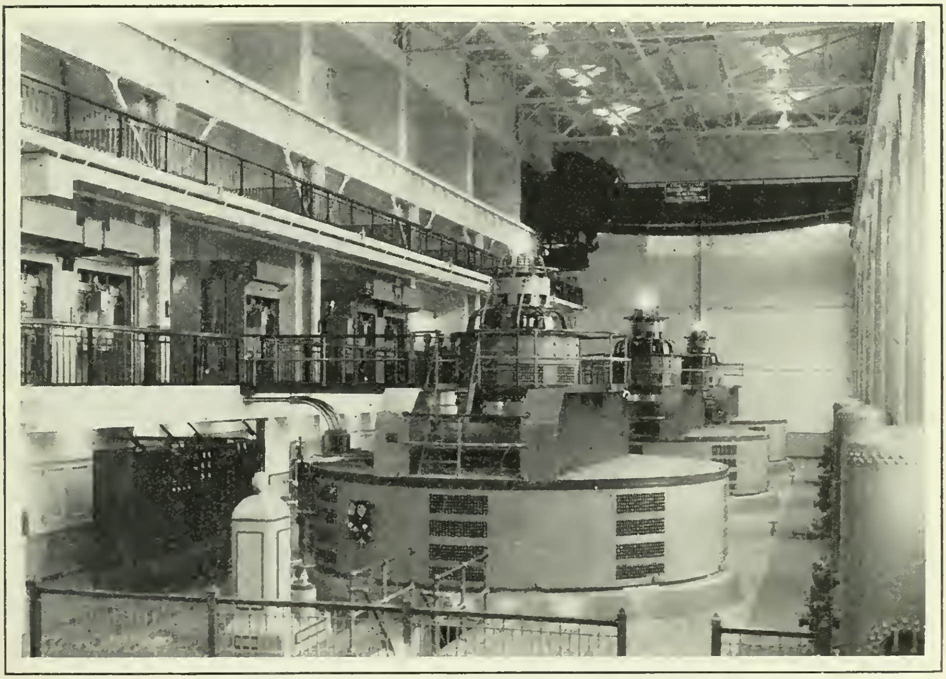
At Norwood distributing station a third 4,000-volt feeder was installed to feed the village of Hastings. At Stirling municipal station a 2,400-volt feeder was installed to feed the rural district. At Belleville distributing station the low-voltage switching equipment was replaced by new metal-clad switchgear with higher rupturing capacity oil circuit-breakers. At the Kingston Elevator Company's station metering equipment was installed. The metering equipment for the Ontario Rock Company's load was transferred to its station from Heely Falls generating station.

St. Lawrence District—The metering equipment for the Eugene Phillips load was changed from the low to high-voltage bus.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Transformers and grounds



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Interior of generating station showing three units completed, total capacity 54,000 horsepower

Rideau District—At Rideau transformer station the 1,500-kv-a. transformer was reconnected so that it now receives power from the 44,000-volt side of the power bank in Smiths Falls transformer station and steps down to 2,400-volts. In this station also, a 750-kv-a., three-phase unit, transferred from system reserve, was installed to supply 25,400-volt power to the Rideau district from the 2,400-volt bus.

The Forfar distributing station was changed over to receive power at 110,000-volts and two 500-kv-a. single-phase transformers were purchased and placed in service in open delta. The 100-kv-a. unit was removed and placed in system reserve.

THUNDER BAY SYSTEM

Generating Stations on the Nipigon River—The installation of the second and third generators and the three transformer banks at Alexander Power development referred to in last year's Report was completed and the equipment placed in service early in the year. The station is now finished except for the installation of the remote control equipment. This is being supplied at the present time and will be in service early next year.

Transformer and Distributing Stations—Improved relay protection was installed on 22,000-volt feeders and 110,000-volt lines and the neutral of the transformer banks was grounded at Port Arthur transformer station.

NORTHERN ONTARIO SYSTEM

Sudbury District—The necessary metering equipment to measure the 25-cycle power supply to the International Nickel Company at Copper Cliff was installed and placed in service.

Abitibi Canyon Generating Station—Further engineering conferences were held in order to co-operate with the Ontario Power Service Corporation in the design of its generating station at Abitibi Canyon in accordance with the provisions of the power contract.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

The past year has been one of moderate activity in the Commission's transmission section. New lines have been constructed, most notably, 192 miles of 132,000-volt, steel-tower line between Hunta and Sudbury. This is the first major Hydro construction in the Sudbury district and was completed in twelve months' time. An additional 220,000-volt line was also completed between the new Chats Falls generating station and Leaside, 200.6 miles.

Transmission lines of lower voltages have been erected and others have been rebuilt, either on account of their age or an increase in voltage.

Progress has been continued throughout the year in an effort to improve the telephone service in all systems, in order to make it more adequate for the Commission's needs. In all new work, particular care has been taken to co-ordinate, as closely as possible, the telephone circuits with the power circuits carried on the same poles.

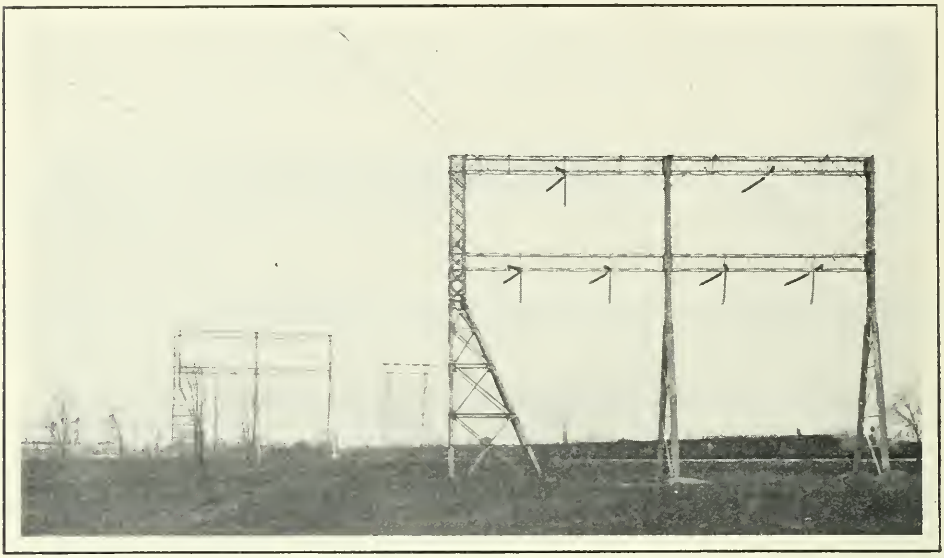
In addition to the following synopsis, a map, showing all transmission lines of the Commission, is included at the back of this report and relative data are tabulated in Appendix II.

NIAGARA SYSTEM

220,000-volt Lines

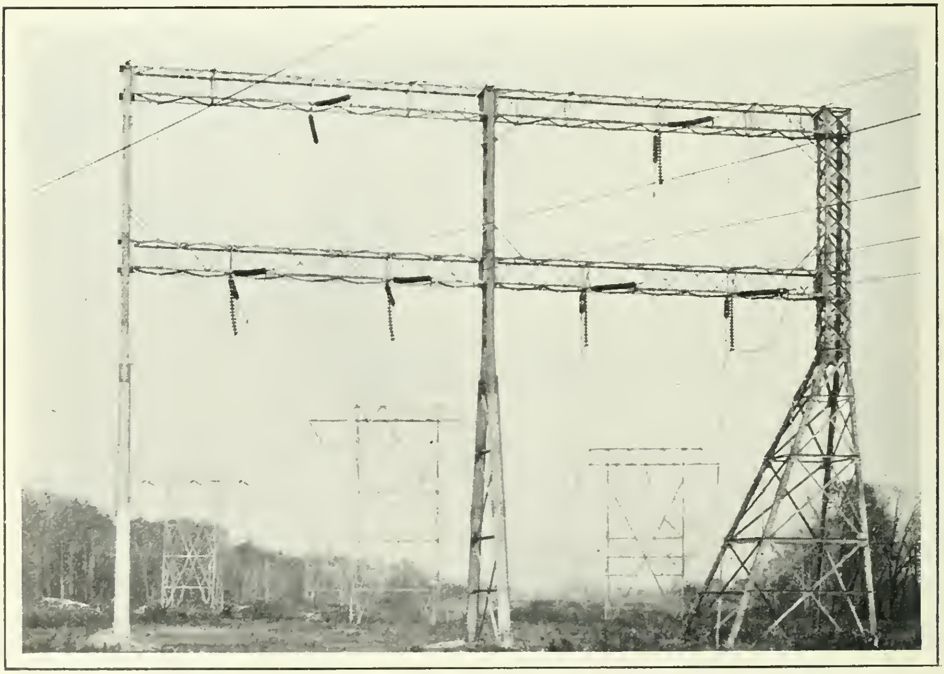
Between the new Chats Falls generating station and Leaside transformer station, a total distance of 200.6 miles, construction of a single-circuit 220,000-volt line was completed and placed in service. This line is of similar construction to the Leaside-Gatineau lines and is spaced, on an average, 150 feet from them. A tie line was also constructed between Chats Falls switching structure and the Leaside-Gatineau line, having specially designed semi-anchor, steel towers with two elevated conducting ground wires of 176,900 circular-mil, steel-reinforced, aluminum cable.

A patrol point was established at Cloyne on the 220,000-volt lines by the completion of a patrolman's cottage, a two-car garage and storeroom. Garage and storeroom were also built at patrol points, Calagobie Road and Ompah.



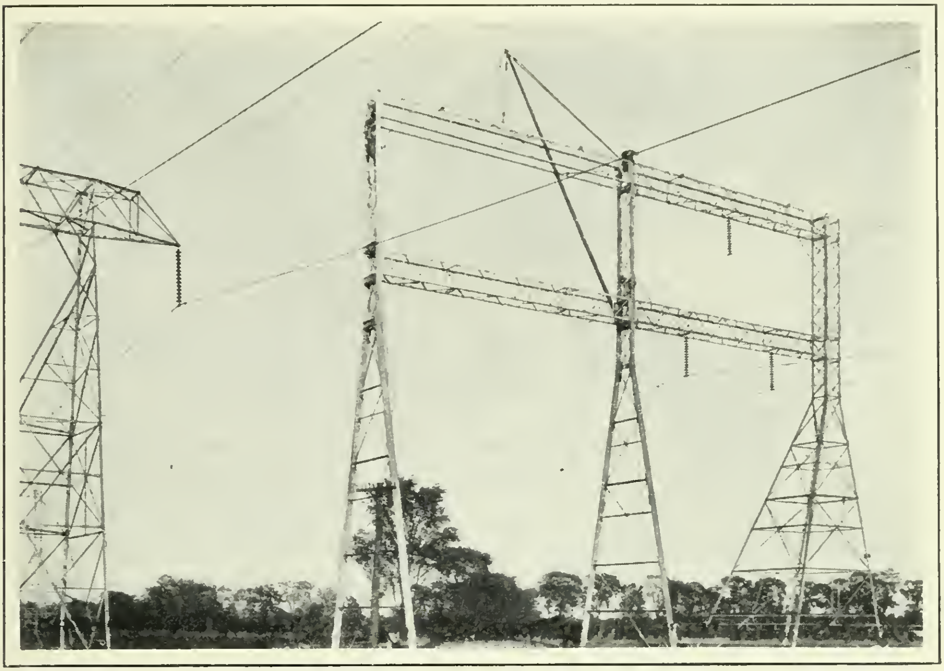
HYDRO 220,000-VOLT TRANSMISSION LINES

Looking west through bridge structure No. 977 in vicinity of Leaside transformer station



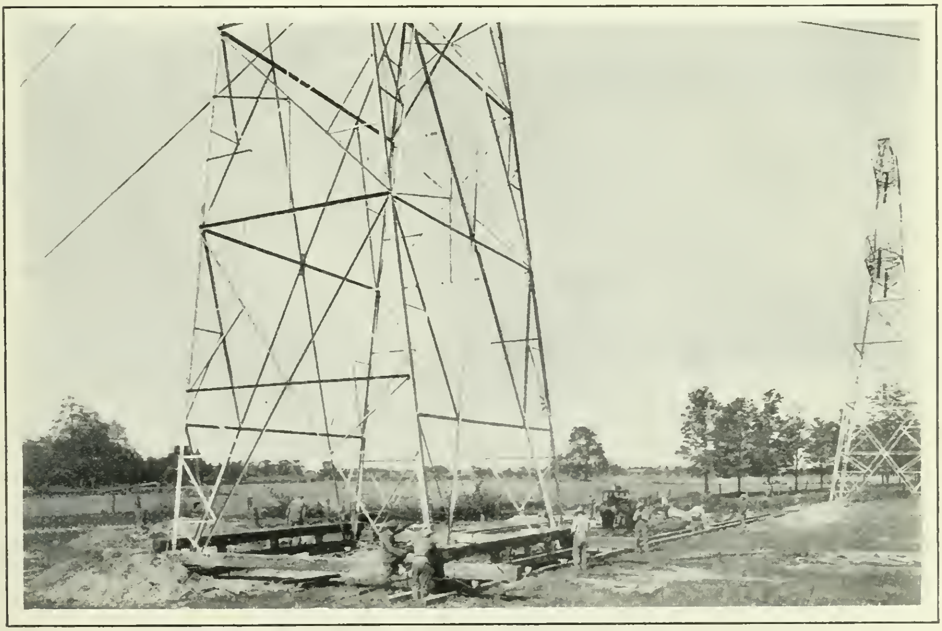
HYDRO 220,000-VOLT TRANSMISSION LINES

Looking east through bridge structure No. 977 in vicinity of Leaside transformer station



HYDRO 220-000-VOLT TRANSMISSION LINES

Erecting bridge structure at entrance to Leaside transformer station



HYDRO 220,000-VOLT TRANSMISSION LINES

Moving tower No. 951 showing rigging and runway

110,000-volt Lines

In Toronto, four, four-circuit steel towers were erected to replace twelve double-circuit towers on account of the construction of St. Clair avenue subway.

Between Islington junction and Bridgman transformer station, seven miles of deteriorated ground cable were replaced by 5/16″ high-tensile, steel cable.

In Burlington Bay, as a protection against ice, five thousand yards of rock fill were placed around piers of steel towers.

In Woodstock station yard, circuits were diverted to accommodate new station construction.

26,400-volt Lines

Between Essex distributing station and Leamington junction, 14.40 miles of wood-pole line were rebuilt. New guys were installed and the existing power cables were replaced by 3/0 steel-reinforced aluminum conductor.

At Gosfield, two air-break switches were installed, and at Leamington one old switch was replaced by a more modern type and an additional switch installed.

Between Essex transformer station and Walkerville municipal substation, it was found necessary to increase the insulation from two to three units.

Between a new junction on the Amherstburg-Harrow line and the new Comet distributing station, a single circuit of No. 4 steel-reinforced aluminum cable was erected on rural poles. An air-break switch was erected at the junction point.

The Harrow-Kingsville line was rebuilt to provide clearances and properly arrange rural and municipal circuits carried on this 26,400-volt pole-line.

At Kingsville, due to the construction of a new distributing station, the transmission lines in the town were rearranged and relocated.

Connections were made to the new Sarnia rural power district substation and to improve the operating conditions, an air-break switch was installed at the junction on the tapped line.

Other Lines

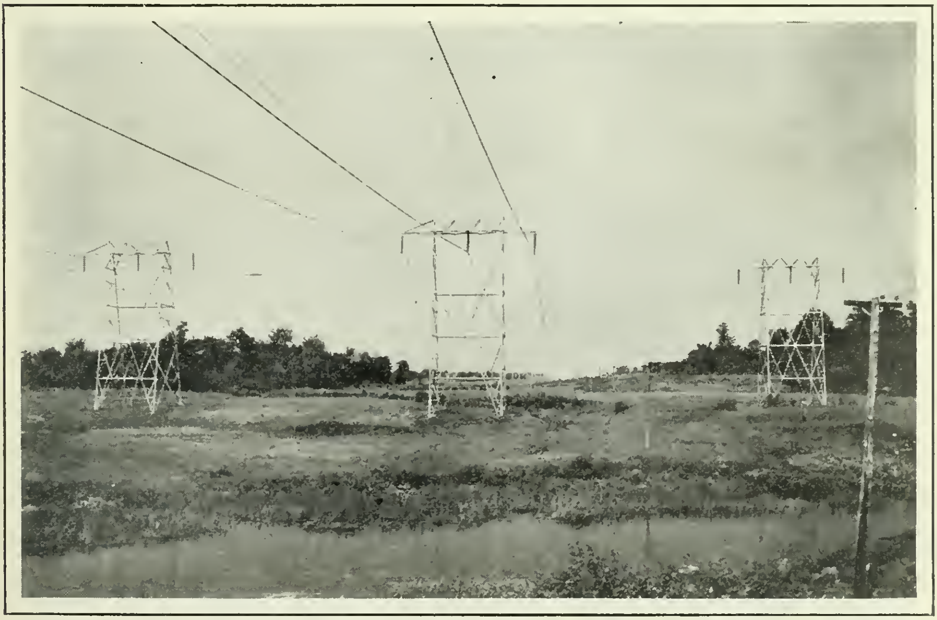
In Chippawa, a short section of 13,200-volt wood-pole line was rebuilt to accommodate an extra 190,000 circular-mil copper circuit to a customer, and a new double-circuit line was constructed from the customer to supply the filtration plant at Chippawa.

Between Dundas transformer station and a customer near Waterdown, 7.37 miles of double-circuit 13,200-volt line have been rebuilt and the No. 2 aluminum conductor replaced by No. 1/0 steel-reinforced aluminum cable. Similar work was done between Dundas transformer station and Dundas municipal station, 1.5 miles, and between Waterdown junction and Waterdown distributing station, 1.5 miles.

New air-break switches, replacing the old type, were installed at Waterdown junction and Caledonia terminal station.

In the vicinity of Yonge street, reinsulation of former 12,000-volt lines for 26,400 volts was completed for municipalities north of Willowdale. New, single-circuit, 26,400-volt lines were erected between Keswick junction and Sutton—8.5 miles, St. Andrews junction and Pottageville—8.25 miles. A short section of additional 13,200-volt circuit was added to the line north from York Mills. In all, 44.5 miles of 13,200-volt line were reinsulated for 26,400 volts, and 16.75 miles of new line erected.

HYDRO 220,000-VOLT TRANSMISSION LINES
Looking west from a point west of Bannockburn



HYDRO 220,000-VOLT TRANSMISSION LINES
Looking east from Hastings switching station

Between Dorchester junction and Broughdale junction, 33 poles were replaced by longer poles, in order to provide space for additional circuits.

Between Elginfield and Ailsa Craig, approximately 2.5 miles of line were rebuilt to accommodate Ailsa Craig rural power district attachments.

Between St. Thomas and Aylmer, some pole heights were increased in order to increase clearances to secondary circuits.

At Weston junction two air-break switches were installed to replace an old type.

Between Welland transformer station and a customer's new transformer station, construction was completed of a short section of 12,000-volt line and revisions were made to a bus-tie switch structure.

In Woodstock station yard, rearrangement of 13,200-volt lines was made to conform to the revision and extension of the transformer station.

At Lakeview junction, two old-type air-break switches were replaced by new.

Between Guelph and Georgetown 31.58 miles of 13,200-volt line were renewed by the replacement of defective insulators, cross-arms and cable-clamps Guys were added where necessary and a short portion of line diverted at Acton.

GEORGIAN BAY SYSTEM

Eugenia District

Air-break switches were installed at Kilworthy junction on the 38,000-volt line between South Falls and Waubaushene.

Between Derby Mills junction and Hepworth, Hepworth distributing station and Wiarton distributing station, a single-circuit, 22,000-volt, wood-pole line with No. 2 steel-reinforced aluminum cable was completed. This line is equipped with a single-circuit telephone and an air-break switch at Hepworth and Derby Mills junctions, total distance, 18 miles.

Between a new junction on the Tara-Southampton 22,000-volt line and Port Elgin, a new, 22,000-volt circuit was installed by building 1.5 miles of new construction and the reinsulation for 22,000 volts of 2 miles of 11,000-volt line.

Between Chesley and Paisley—10.7 miles—a 4,000-volt line was rebuilt and reinsulated to supply power to Paisley at 22,000 volts.

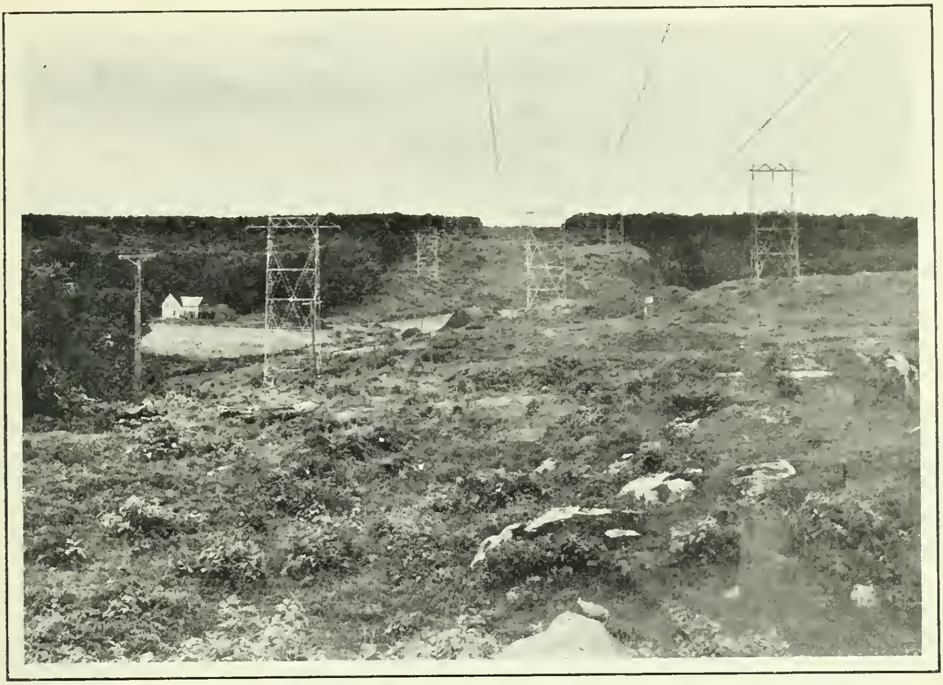
EASTERN ONTARIO SYSTEM

Central Ontario District

Railway crossings throughout this district have been reinforced by the addition of guys, the elimination of joints in crossings and adjacent spans.

Between Belleville switching station and Belleville distributing station, No. 1, construction was completed of a single-circuit 44,000-volt line of No. 2 steel-reinforced aluminum cable on pin-type insulators. The erection of four 44,000-volt, air-break switches was included in this construction.

At Kingston, two 44,000-volt, air-break switches were erected on the Commission's line at a point where a line owned by the municipality extends to the Canada Steamship Company elevator.



HYDRO 220,000-VOLT TRANSMISSION LINES
Three lines looking west from Packenham Mountain

HYDRO 220,000-VOLT TRANSMISSION LINES
Three lines looking east from Packenham Mountain

THUNDER BAY SYSTEM

In Fort William, a portion of the 110,000-volt line between Centre avenue and Leland avenue was relocated in co-operation with Canadian National Railway revisions.

A patrolman's cottage was erected at Sibley on the Cameron Falls-Port Arthur, 110,000-volt line.

NORTHERN ONTARIO SYSTEM

Sudbury District

Between Hunta—situated 10 miles west of Cochrane—and Sudbury, 189 miles of double-circuit, 132,000-volt, steel-tower line has been completed and placed in service. This line supplies 25-cycle power to the Sudbury district from the Island Falls plant of the Ontario Power and Service Corporation in the Abitibi Canyon. Power is delivered at Hunta over the corporation lines.

Between Coniston generating station and Sudbury, a total distance of 10 miles, 5.5 miles of single-circuit, 22,000-volt line, complete with telephone circuit, was constructed. This new construction makes the whole line accessible by roadway. The balance of the line was reinforced by erecting heavier conductor.

TELEPHONE LINES—ALL SYSTEMS

At Chats Falls, the Gatineau-Leaside telephone circuit was looped in and out of the generating station. Along with the circuit to the Madawaska district, these circuits were connected through telephone cables to a switchboard in the control room. This has done away with the necessity of telephone switching at Galetta generating station. The telephone line is now a direct line between Leaside and Chats Falls, a distance of 200.6 miles, where calls are switched to Paugan or the Madawaska district. The telephone service on this line is now excellent.

Between Dundas transformer station and Dundurn municipal station, Hamilton, the open-wire telephone circuits were replaced with a 25-pair telephone cable. This cable provides telephone service from Dundas transformer station to operating offices, located in Hamilton. The cable, besides providing additional circuits, ensures reliable service under all weather conditions.

Between St. Thomas and Aylmer, and between Amherstburg and Harrow, the old iron telephone circuits were replaced with new copper circuits and co-ordinated with the power circuits, thus giving improved service for the operation of these lines.

In the Niagara system, copper telephone circuits were erected and placed in service on a number of new 13,200-volt transmission lines for use in operation.

In the Georgian Bay system, between Eugenia and Markdale, the old iron telephone circuit was replaced with a new copper circuit co-ordinated with the power. This enables satisfactory conversation to be carried on between the head office at Toronto and the operating field office at Markdale.

In connection with the rehabilitation of lines purchased in the Bruce district, telephone circuits were provided to link up with the Hydro system and provide for the operation of these lines.

In the Eastern Ontario system, the old telephone circuit between Heely Falls generating station and the Belleville operating office, was replaced with a new copper circuit. The service is now much improved.

Between Smiths Falls junction and the field operating office, a new telephone circuit was erected and placed in service.

In the Northern Ontario system, a telephone circuit, 190 miles in length, has been completed between Hunta and Copper Cliff. This parallels closely the new 132,000-volt transmission line and is used for its operation. In addition, short tap lines were built connecting the various patrol stations to the main line. A telephone line was built from Copper Cliff to Sudbury giving communication with the operating office at Sudbury from any point on the line.

Between Sudbury and Wahnapitae Lake control dam, the telephone line was, in part, rebuilt and new copper conductor provided throughout. This new line has since been satisfactorily used for long distance calls.

DISTRIBUTION AND RURAL SYSTEMS

The work carried on by the Distribution section of the Electrical Engineering department covers the engineering for the construction of rural lines, distribution feeder lines, metering equipments, distribution systems for municipalities, etc. A tabular report of the work done during the past year may be found in Appendix III of this report.

SECTION VII

THE LABORATORIES

During the past year work in the Laboratories has been well maintained and the total volume of work has approximated that of last year.

There has been an increase in routine testing which is an encouraging sign as it is an index of aid given in the operation of the Commission's systems. This work may be designated as "control testing" since it gives information as to the quality of materials and equipment in service and gives warning of deterioration or failure. It also in many cases leads to research work of major importance to the Commission, an example of which may be found in what has been accomplished in improvement of transformer oils.

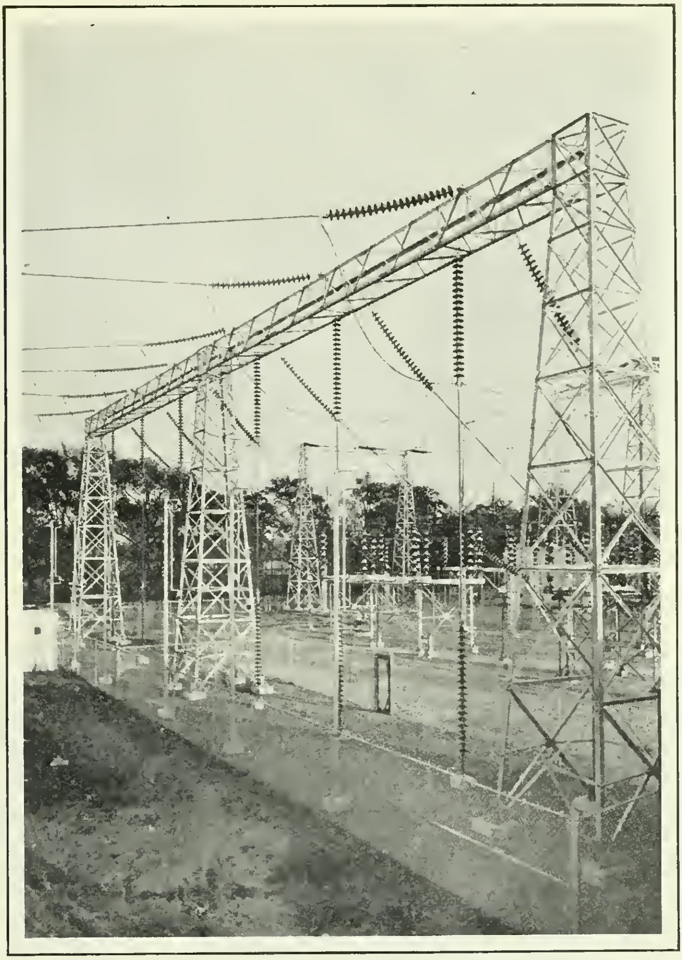
The testing work for organizations outside the Commission has also increased and has included calibration of meters, efficiency tests on electrical equipment and tests on concrete. The main research activities of the department have been in the fields of concrete, protective coatings, radio interference, and grounding of electrical systems. These activities are described in greater detail below.

The inspection of equipment and material purchased by the Commission has been of increasing importance as a major activity of the department. This work has been thoroughly organized and efforts are continually made to correlate shop inspection with field experience. The department is accumulating a fund of information on the properties of materials which is of increasing value in the work of inspection, and which is made available to the Engineering departments to assist them in the design of new structures.

The Approvals Laboratory has been busier than at any previous time in its existence, although its revenue has decreased as compared with last year. The general depression has been the cause of the decrease in the sale of labels, but it has also brought about an increase in the number of applications for approval on new types of equipment. Evidently, manufacturers have endeavoured to improve their position during hard times by marketing a greater variety of equipment.

Considerable trouble has been encountered during the year in the enforcement of the regulations respecting the sale of electrical equipment. A large number of manufacturers of unapproved and dangerous waterheaters endeavoured to flood the market. These heaters were sold by itinerant vendors or by mail order, and it was extremely difficult to detect them. This important part of the work of the department is a direct charge against operation for which no revenue can be obtained.

The Electrical Inspection division has suffered a decrease in revenue, which is, of course, the result of a recession in building activity in the Province.



LEASIDE TRANSFORMER STATION—KLYDONOGRAPH STRUCTURE
Banks 3 to 6, October 21, 1931

High-Tension and General Electrical Laboratory

The general electrical testing of the Laboratory continues to be quite wide in variety and of considerable amount. The range of equipment available for testing, as mentioned in previous reports, is extensive and these facilities have been useful not only to members of the Laboratory staff but also to other engineers of the Commission and to the municipalities.

Shop Inspection

The inspection of equipment at the factory has continued regularly throughout the year, the most important work relating to the generating, transformer and control equipment for Chats Falls Development, and the transformer station and its control equipment at Leaside. A reduced volume of business in porcelain insulators however was experienced.

Routine Testing

As much as possible of the continuous testing work of the Laboratory is standardized both as to methods of handling and as to the equipment used. This promotes efficiency in operation and ensures a basis on which comparisons may be valid. Distribution transformers have been inspected and tested for various departments during the year and repairs arranged for when necessary. More than 10,000 pairs of linemen's rubber gloves were tested, and dielectric tests made on 6,000 samples of transformer and switch oil.

Ground Testing

A large amount of work was done in committee and elsewhere pertaining to a much more extensive survey of the resistance of driven grounds established at consumers' services and also the values of the ground connections on consumers' premises. Some sixteen hundred values were analyzed for suggestions as to general methods of classification and possible methods of improvement in the most economical manner under the various conditions. This investigation is still proceeding.

An extensive series of tests were made on tower-footing resistances on the 220,000-volt line from Chats Falls to Leaside. This was done with the purpose of rendering the line immune, as far as possible, to hazards from lightning. Attention was concentrated on the sections where rock-footings are the rule, experience having shown these sections to be the most exposed on these lines.

Radio Interference

Close attention has been given to developments in the problem of radio interference and close co-operation is afforded the Radio Interference Branch of the Department of Marine and Fisheries in any activity associated with the Commission's properties. The question of radio interference is very important from the operating point of view, and it is essential that the Commission be well informed at all times respecting the technical aspects of this problem.

Meter and Standards Laboratory

General

Laboratory standard meters have been in continuous service and against these standards nearly two hundred calibrations of various instruments have been made during the year.

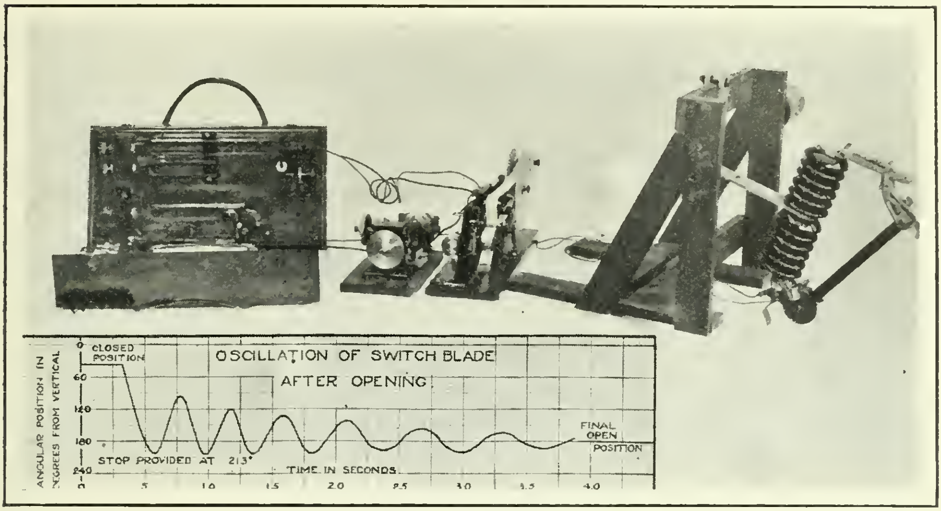
A portable two-element oscillograph was added to the equipment during the year and because of its economy in operation has been very useful.

A new model of earth-resistance tester was investigated and a considerable number purchased by the Commission for the use of inspectors and rural superintendents.

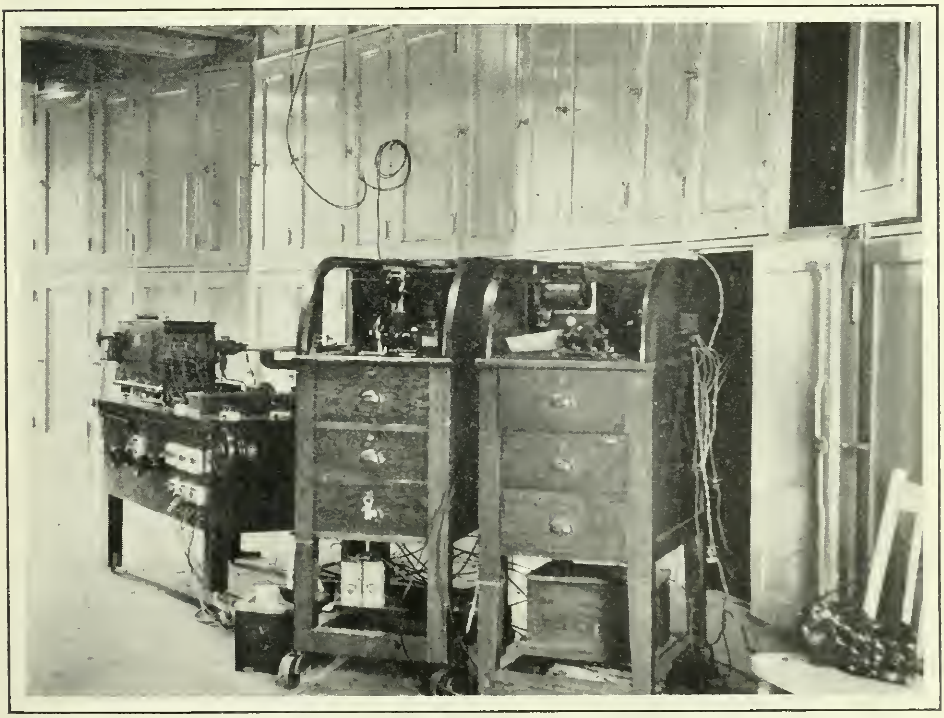
A new type of watt-hour meter, which may be supplied with a demand attachment, was also investigated and a report made upon it.

Meter Repairs

More than thirteen hundred and fifty watt-hour meters were repaired during the year, a large number of these having demand attachments. Various other types of instruments also were repaired for the use of the staff and for


OSCILLATION OF SWITCH BLADE
AFTER OPENING
ANGULAR POSITION IN DEGREES FROM VERTICAL
0
60
120
180
240
CLOSED POSITION
FINAL OPEN POSITION
STOP PROVIDED AT 213°
TIME IN SECONDS
0
.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0

CHRONOGRAPH TEST ON TIME OF OPERATION OF FUSED DISCONNECTING-SWITCH
Electrical Laboratory



THREE OSCILLOGRAPHS BEING OPERATED SIMULTANEOUSLY WITH TWO MORE AT TWO HUNDRED MILES DISTANCE outside parties as well, the principal types including forty-three meggers and resistance bridges, thirteen time switches and thirteen graphic meters.

The instrument repair shop has been uniformly busy throughout the year in supplementing the work of all sections of the Laboratories.

Illumination Laboratory

Lamp Testing

The testing of "Hydro" lamps proceeds continuously from year to year and with respect to the routine tests each year's work is largely a repetition of that of previous years. Occasions frequently arise which necessitate special tests to reveal additional information.

In accordance with the specifications the inspector at the factory systematically selects a percentage of each batch of lamps being manufactured, inspects them for defects and measures the rating of them. If satisfactory according to these tests a further selection of lamps, representative of the average, is made for life testing. During the year the inspector handled in this way 16,000 lamps, and 2,350 lamps were life tested at the laboratory. By this means a close check on the quality of the lamps is assured.

The use of inside frosted bulbs has been extended to the larger sizes up to and including 1,000 watts. These larger sizes, above 100 watts, may be obtained at slightly increased cost. The inside frosting is not of particular value in many cases but for indirect lighting it adds much to the appearance of rooms by diffusing the shadows of the supporting chains or rods and the edges of the illuminated areas on the ceilings.

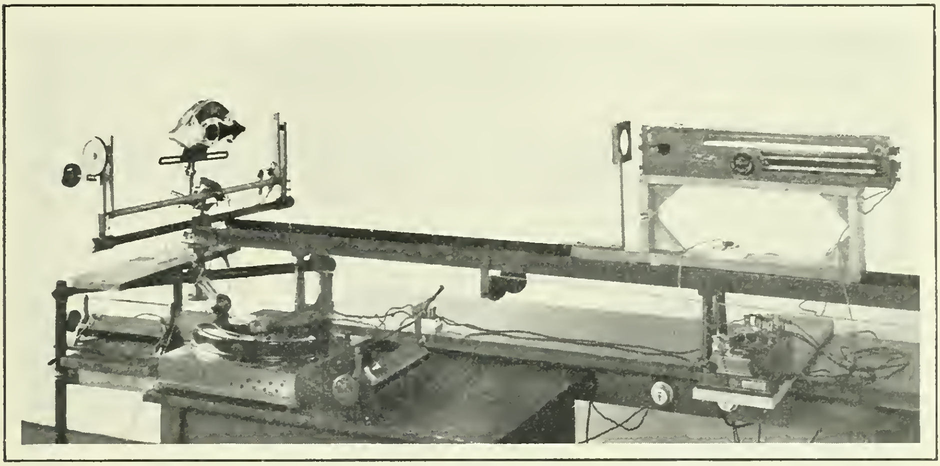
Tests of Lighting Equipment

Several tests of street-lighting fixtures and glassware were made. These tests were for the purpose of obtaining data regarding the efficiency of the glassware. There is a very wide range of efficiency of lighting glassware and with differences in price a test is the only means of obtaining the information necessary as a basis for intelligent selection.

Lighting Service

The importance of properly designed lighting is being more widely recognized as the benefits resulting therefrom are becoming evident.

The local "Hydro" municipal managers are usually active in promoting the affairs of their municipalities, and as a result of this they are usually aware of changes or extensions involving lighting. We have been able to render very valuable service to many of these managers who make use of our facilities. The number of requests for recommendations regarding lighting has been 50 per cent higher than during any previous year. Requests for this service have been steadily increasing year by year but there are many municipal managers who have not taken advantage of it. The normal operation of the Illumination Laboratory keeps the Commission in close touch with developments in lighting equipment and methods, and this experience is available to all users of the Commission's power.



TEST ON TURN SIGNAL FOR AUTOMOBILES
Illumination Laboratory

Automobile Lighting

The Illumination Laboratory is the testing and consulting agency for the Ontario Department of Public Highways on all matters relating to the use of light on automobiles for safety or signalling.

A new test was developed during the year for "left turn" signals submitted for approval in accordance with an amendment to The Highway Traffic Act. It was necessary to conduct experiments and observations to determine the form, colour, area and intensity of signals and to draft specifications to govern the rating of signals for this purpose.

The testing of reflective signals for use on trucks has been continued, twelve being tested during the year.

In addition to standardized tests a large number of examinations of lighting and signalling devices was made and the results reported. These are principally in connection with the merits of tentative designs.

Recent Developments in Lamps and Illumination

Tubular Lamps

The trend of illumination design of the modernistic type has resulted in the development of a number of lamps designed to suit the particular needs of this type of lighting. These lamps are tubular in shape and range in length from about 12″ to 34″ and are of 150 and 100 watts rating. Placed behind panels of diffusing glass these lamps greatly simplify the attainment of a good appearance free from the spottiness which is difficult to overcome with lamps of the more common types. These lamps are also well suited to indirect lighting from troughs where space for troughs and coves is limited. On account of special features in design these lamps are of lower efficiency than lamps of similar watts rating but of regular service construction. They are recommended for use only when the advantages of their construction outweigh the sacrifice in efficiency.

Ultra Violet Lamps

There are several small ultra-violet lamps available that are found to be useful in poultry houses and brooders in increasing egg production and improving the growth and health of poultry stock.

Floodlighting

In the design of office and similar large buildings the provision for floodlighting is being considered as an integral part of the building design. Furthermore, the appearance of the flood-lighted building has an influence on the design of the details of the exterior.

Night-time Athletics

Lighting for outdoor sports is growing in favour in both large and small municipalities. Commercialized sport has found that in many cases the increased attendance at night is more than enough to pay in one season for the lighting installation.

Engineering Materials Laboratory

The Engineering Materials Laboratory has been quite busy during the past year, some two thousand different samples having been received and tested. The kind of testing done has been much the same as in the past; namely, cement, concrete and concrete aggregates, steel and other metals, clamps, wire, insulators, and other materials used by a large utility such as the Hydro undertaking.

Research

While, because of other work, only a small amount of research has been attempted, some results of interest have been obtained and these will be briefly mentioned. The workability of concrete mixtures is a fundamental property of great importance in the building of durable concrete structures, but one which to date has defied measurement. Recently two new methods of determining workability have been proposed by different investigators and these have been tried out in the Laboratory but with disappointing results.

A more successful research was the development of a method of waterproofing leaks that sometimes occur in concrete structures at joints or cracks, after completion. It was necessary not only to develop a material that would bond with the concrete and that would remain plastic at freezing temperatures, but also methods for its application. Both a satisfactory material and methods for its use were developed, and the practicability of the conclusions has since been demonstrated on several structures.

Tests to determine the proper protective treatment for structural steel that is to be embedded in concrete were continued this year, and the results to date seem to indicate that the present practice of painting steel with spar varnish is as satisfactory as any.

The difficulty, often experienced in large hydro-electric power developments, in securing a satisfactory supply of sand for concrete has led to the study of the use of artificial instead of natural sands for this purpose. Preliminary studies already completed show that artificial sands can be used successfully, and tests are now under way to determine when such sands are practicable and economical, and what effect, if any, their use would have on the durability of concrete made therefrom.

Another troublesome problem on which experimental work has been done is the development of methods of detecting unsound sands. It is very necessary to avoid unsound sands for if these are used in concrete or mortar, the concrete disintegrates rapidly. Using methods proposed by the American Society for Testing Materials and others, a number of Ontario sands of high quality were compared with a group of sands known to be unsound. The conclusion reached was that by the method of testing used, a sand that was grossly unsound could be detected, but that more complete information was needed before the test could be safely included in a specification.

An extensive investigation has been carried out on the efficiency of different types of welding rod. Typical welds were made with different kinds of rod, and these were tested to destruction and examined microscopically to determine the character of the metal deposited. The information obtained has proved very valuable in the Commission's welding work.

Other investigations undertaken by this department have had to do with splicing of wire and cable; with lock washers to prevent tower bolts from working loose; with the best type of anchor bolts for fastening fixtures and light apparatus to finished concrete, and with the reliability of compression tests as a measure of quality of concrete.

Inspection of Concrete Structures

The field inspection of concrete going into small structures has been given more attention this year than in the past and the system now followed appears to result both in obtaining proper records of the materials and methods used in each case, and also in helping the construction staff to make better concrete. Through close co-operation between the Construction, Engineering and Laboratoy departments, it is possible to have all concrete materials such as cement, sand, stone and gravel checked as to suitability before use, and to predetermine the proper proportions of these that will make the quality of concrete required. Later, concrete from the job is tested and where requested, or circumstances warrant, an inspector visits the job while concreting is in progress. No substandard concrete has been observed on any of these smaller jobs this year.

Field inspection of concrete has been continued. The structures of the Queenston-Chippawa, Ontario Power, Big Chute, Eugenia, Nipigon, and Alexander developments were examined during the year, and in addition a limited number of foreign structures were inspected in connection with the general investigation of the disintegration of concrete.

Several items of new equipment were added during the year, the more important being a new cement briquette testing machine, a new flow table for controlling the workability of concrete, and a small rock crusher.

Inspection of Materials and Equipment

Although a decrease in the volume of inspection work might have been expected during the past year, the reverse conditions prevailed. This was due, in part, to a widening of the field of activities, and in part to the large amount of work involved in supervising the shop construction for the Chats Falls and Beauharnois developments.

Apart from special problems, the character of inspection done by the Laboratory does not vary much from year to year. The materials requiring inspection are very diversified in character, and the sources of supply scattered over a wide area involving a large amount of detail work and much travelling. The Laboratory retains resident inspectors at several of the larger industrial centres, and during the past year has inspected materials in more than forty different plants.

Due to the widespread adoption of welding as a process of fabrication, it was considered advisable during the past year to make a special study of the process. One of our engineers spent several weeks in a large plant in the United States where welding is an important method of manufacturing. The various features and characteristics of welding were carefully studied and reported upon and the information gained has been found most useful in the inspection of equipment fabricated by this method for the Commission. Not only has this knowledge been useful to the Commission, but through the inspectors it has been of assistance in improving the shop welding methods of the smaller plants whose welders are frequently self-taught and do not fully understand the principles involved.

Special Tests

Several groups of tests have been carried out for outside companies. This work has included tests on concrete, concrete aggregates, oils, paints, and other materials.

The department has co-operated closely with the Chats Falls Engineering Board, and a number of tests have been made at its request. A senior concrete inspector was lent to the Board, who had charge of the inspection of the concrete during construction of the dam and powerhouse. Other men have been lent when required, to assist in the erection of the power-house steel and the welding of the turbines.

PHOTOGRAPHS TAKEN IN THE STUDIO DURING 1931

Description of Illustrations on opposite page

Column I

Equipment used in chopping mill tests.

Sludge formed in different oils.

Experimental grinder for choping mill.

Method of testing inserts in concrete.

Glove worn by injured lineman.

Page from special album.

Column II

Apparatus for soil analysis.

Photographs of uses of electricity on farm, assembled for ready use.

Illuminated address.

Illustrations for resuscitation instruction.

Copy of connection diagram.

Column III

Aerial mosaic.

Insulators destroyed in service.

Microphotograph of steel.

Load curves.

Goggles that saved a serious accident, and piece of metal that broke them.

Reflex signal test.

Dear Mr. Magrath,

Having known for some time past that it was your desire to lessen your official burdens and that you had tendered your resignation to be accepted at the convenience of the Government, it is, nevertheless, with deep and sincere regret that we learn that the step has actually been taken and that you have retired from the Chairmanship of the Hydro-Electric Power Commission of Ontario.

When you assumed office five years ago you applied yourself with characteristic earnestness to obtain an understanding of the many important economic, engineering and other problems incident to the work of the various departments and it was early recognized by the members of the staff that your sympathetic and intelligent interest was the contribution of a stalwart friend and counsellor.

This, coupled with your uniformly gracious treatment of all, has won for you our abiding friendship and esteem.

PHOTOGRAPHS REPRESENTATIVE OF THOSE TAKEN IN THE STUDIO DURING 1931; INDICATING THE WIDE RANGE OF WORK COVERED

For Description of above see facing page

Chemical Laboratory

The Chemical Laboratory has had the busiest year in its history. The work has been varied in character, including all of the types of testing reported in previous years, and several special investigations of some magnitude.

Special Tests and Investigations

The department assisted the Engineering Materials Laboratory in the development of a suitable material for waterproofing joints and cracks in concrete but has carried the work somewhat further than was necessary for that purpose and made a general study of plastic materials for these and allied uses.

Research work on the disintegraton of concrete has been continued. Field examinations of several decayed concretes were made and a survey of the literature on the effect of acid waters on concrete, completed and summarized in a report.

Encouraging results have been obtained on the reconditioning of insulator oils that have deteriorated in service. A 6,000-gallon test run of bad oil was made at the Ontario Power Generating station, and the results indicated that the treated oil has been returned to first-class condition. Further studies are now underway to develop portable equipment for carrying out the process in the field.

Investigation of paint problems has been continued. The increasing use of synthetic resins and gums in the manufacture of paint has created a new problem for the user as the ordinary methods of judging the quality of paints and varnishes do not apply where these materials are used. In order to meet this situation, the Laboratory has done experimental work on this type of finishes and as a result can now evaluate those offered with some accuracy. In addition to these tests and the routine examination of paint purchases, a special series of comparative tests on twenty standard brands of mill white gloss paint have been completed.

Tests and reports were also made on the following: materials for treating water to stop scale formation and corrosion of circulating water pipes; explosive possibilities of creosote in connection with the explosion at North Bay; properties of petroleum cleaners; special finish for aluminum surfaces; used motor oil; special floor finishes; corroded cooling coils; specification for governor oil; wooden penstock preservation; removing scale from cooling pipes, and conductivity tests on aluminum paint.

Photographic Branch

The character and volume of work done by this department remains about the same as last year. A trip was made over the Eastern system, and views were taken of all power stations there. Progress pictures were taken regularly of construction work carried on by the Commission at Leaside and elsewhere. Pictures were taken from the air of the International Ploughing Match recently held in Peterborough, and night pictures of an illuminated sports field in the village of Alma, Ontario, to demonstrate the progress that the application of electricity is making in the rural communities.

A new 10-inch panoramic camera was added to the equipment of the department.

Blueprinting Department

The Blueprinting department has been exceptionally busy during the past year, having completed approximately 40,000 square yards of finished prints. About 95 per cent. of all blueprints used by the Commission are now handled by this department.

Approvals Laboratory

A summary of the applications for approval of electrical equipment indicates a steady growth in the work of this section. For regular reports 757 applications were received. Of these, 103 referred to power-operated radio devices, musical instruments and accessories, 114 to wiring devices including panelboards and fuses, and 190 to heating appliances. In these groups there was practically no increase. Applications for lighting devices to the number of 110 show an increase of 34 per cent. and motor-driven appliances including oil burners, refrigerators and clocks to the number of 204 increased 16 per cent. While this shows an overall increase of only 16 per cent over the previous year there was an increase of 85 per cent. in the applications, to the number of 154, for special reports, temporary approval and limited label service which are not included in the above total. A decrease is again shown in the applications, to the number of 105, for listing of devices approved by Underwriters' Laboratories, as many devices which formerly have been submitted without test and report, are now included in the regular list due to differences in requirements between the Canadian and the United States Codes.

There have been 390 final approval reports completed—an increase of 73 per cent; and on October 31, 1931, there were 414 applications on the active list—an increase of 29 per cent. This work is being handled by six engineers.

The approval record has been substantially increased, 553 white card summaries having been printed—an increase of 68 per cent.; although only 139 green cards listing devices approved by Underwriters' Laboratories were issued—this being a decrease of 30 per cent. During the year, the printed list in pamphlet form was reissued as the second edition and two supplements were also distributed, the "B" supplement being distributed within thirty days of the issue of the listings included in it. These lists appear to fill a real need on the part of the purchasing section of the electrical trade.

Factory or field inspection work continues to increase as new submittors are added to the approval list. For re-examination inspection, 743 factories were visited and 921 inspections made—only a small percentage of these being duplicated during the year and 257 of these inspections were made in American factories. For label service inspection, 1,262 factories were visited and 2,199 inspections were made; many of these factories are visited monthly or more often, and 129 of these inspections were made in the United States.

The sales of approval labels show an increase of 13 per cent over the previous year; although there was a decrease in the number of transfer labels sold there was an increase in metal labels for signs and panelboards to the extent of 92 per cent. The increasing use of the dead front range fuse cutout base combined with lighting distribution fuses accounts for a large part of this increase. Labels for rigid conduit were prepared and issued and several new label services are in course of preparation at this time. It is hoped to have power-operated radios, portable window display signs, electric clocks and fixtures all covered within the next three months.

Several specifications have been completed for laboratory use and much activity is seen in this work at the present time. In addition to those referred to in the last report portable window display signs, electric clocks, fixtures, hair-dressing appliances, toaster stoves, cigar lighters, enclosed panelboards, electrical equipment for oil burners, branch circuit breakers and enclosed switches have been covered by drafts and in several cases put into effect immediately.

In spite of the handicap imposed by lack of space in which to expand several improvements have been made in the equipment of this section. A new lamp-bank resistance load in which gas-filled lamps are employed has been added to the endurance-testing machine. Many new jigs and movements for operating snap switches and sockets have also been provided and several refinements added to ensure uniform and fair testing facilities. The torsional testing machine for socket shells, etc., has been rebuilt in more substantial form.

It can be safely said that the adherence of the laboratory engineers to the principles set out in the Canadian Electrical Code has resulted in improved and safer electrical construction of many lines of equipment now being distributed in Canada.

ELECTRICAL INSPECTION DIVISION

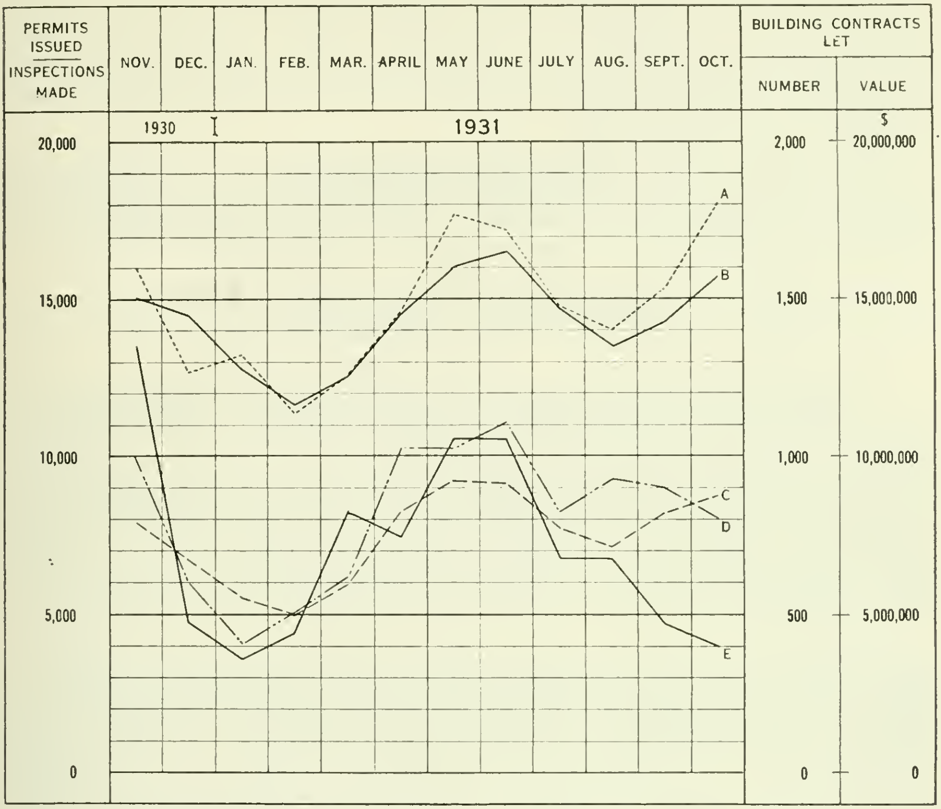
The Electrical Inspection Department has now been in operation for a period of sixteen years. The department was formed, in the latter part of 1915, to supervise the carrying out of Rules and Regulations governing electrical installations in the Province of Ontario. The Province is, at present, divided into thirty-two electrical inspection districts, each being under the supervision of a district inspector, who is responsible to the head office in Toronto. A staff of sixty-three inspectors is employed by the department. These men are located at strategic points throughout the Province, thus enabling the organization to give efficient service at a minimum cost.

The number of paid applications for inspection received during the past fiscal year amounted to 89,760, a decrease of 5.8 per cent from the previous year and 3.6 per cent. below the average for the last six years.

A total of 177,782 inspections was made, a decrease of 4.9 per cent from 1930.

The volume of business transacted by the department is, to some extent, governed by the amount of building construction throughout the Province. The building statistics given, herein, have in the past, proved an excellent barometer of the condition of the electrical trade.

In Toronto, 1,245 building contracts were let in 1931, as against 1,448 in 1930, a decrease of 203 or 14 per cent. The value of these contracts for 1931 was $85,087,900 as compared to $116,203,200 for 1930, a decrease in value of $31,115,300 or 27 per cent.



A—INSPECTIONS MADE, 1930. B—INSPECTIONS MADE, 1931. C—PERMITS ISSUED.
D—NUMBER OF BUILDING CONTRACTS LET. E—VALUE OF BUILDING CONTRACTS LET.

The accompanying diagram illustrates the close relation of the building trade to the volume of business handled by the department.

Six fires were found to have been caused by defective wiring or apparatus.

Five persons were electrocuted by coming into contact with live equipment. The causes have been classified as follows:

Two electrocuted within one hour, on the same premises, one using portable cord equipped with brass-shelled socket which proved defective, the other when inserting a lamp in a brass-shelled socket while standing on grounded material. Voltage 110.

One touched a metal-clad building which had become charged with an electric current through a defective switch. Voltage 550.

One, accidental contact with switch gear in a paper mill. Voltage 11,000.

One, breakdown in elevator control drum, which in turn charged control cable. Voltage 550.

A cow was also electrocuted while attempting to drink from an automatic watering system in a barn. The water piping had become charged with electric current owing to a breakdown of an electrical circuit in a conduit system, which was, in turn, in contact with the water system. This accident again brings to notice the fact that isolated water systems, such as the aforementioned, cannot be classed as reliable grounds.

The regular routine of inspecting a certain number of the older and more obsolete types of installation, in which life and fire hazards are usually found to exist, was carried out as heretofore. Some 3,611 such installations were rewired or overhauled at an approximate cost of $319,195.

The district of Bancroft, which had been closed for a number of years and the work handled from Belleville, was reopened in September, 1931.

The third annual meeting of the district electrical inspectors took place at the Prince George Hotel, Toronto, on March 5 and 6. Matters pertaining to office routine, accounting and general departmental procedure were first thoroughly discussed and several suggestions for improvement were adopted. The balance of the session was taken up by discussion and interpretation of the Rules and Regulations, after which a tour was made of the Commission's Laboratory. This meeting was the most successful held so far. The ground work of the two previous gatherings was quite evident in the dispatch with which matters were handled and in the questions which were taken up.

An important extension of the work of the Inspection department was made during the year in the matter of service grounds in rural localities. For many years the rules respecting grounding were not enforced in rural localities because of the difficulty of securing adequate grounds. As a result of the investigations of the Commission's Grounding Committee the department decided to require grounding of all such services and to make tests on the ground resistances at the time of installation. The Engineering department also began the work of improving ground resistances of transformers in order to bring them to as low a value as possible (not greater than 25 ohms). The experience of the past six months in this work has been encouraging, and it is confidently expected that the continued co-operation between the Inspection and Engineering departments will result in satisfactory conditions in rural localities. The importance of this result is increasing continually as the number of rural customers grows.

SECTION VIII

ELECTRIC RAILWAYS

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Effective July 31, 1931, and pursuant to the Sandwich, Windsor and Amherstburg Railway Act, 1930, the Commission conveyed the assets and undertaking of the railway to the Sandwich, Windsor and Amherstburg Railway Company, but continues to operate the railway on behalf of the Company by virtue of an operating agreement substantially in the form appearing in the said Act.

The Commission's bonds issued and outstanding in respect of this railway, amounting to $5,816,205, are protected by a mortgage deed of trust in favour of the Guaranty Trust Company of Canada, at Windsor, Ontario, to whom were transferred the collateral municipal debentures securing the Commission's bonds.

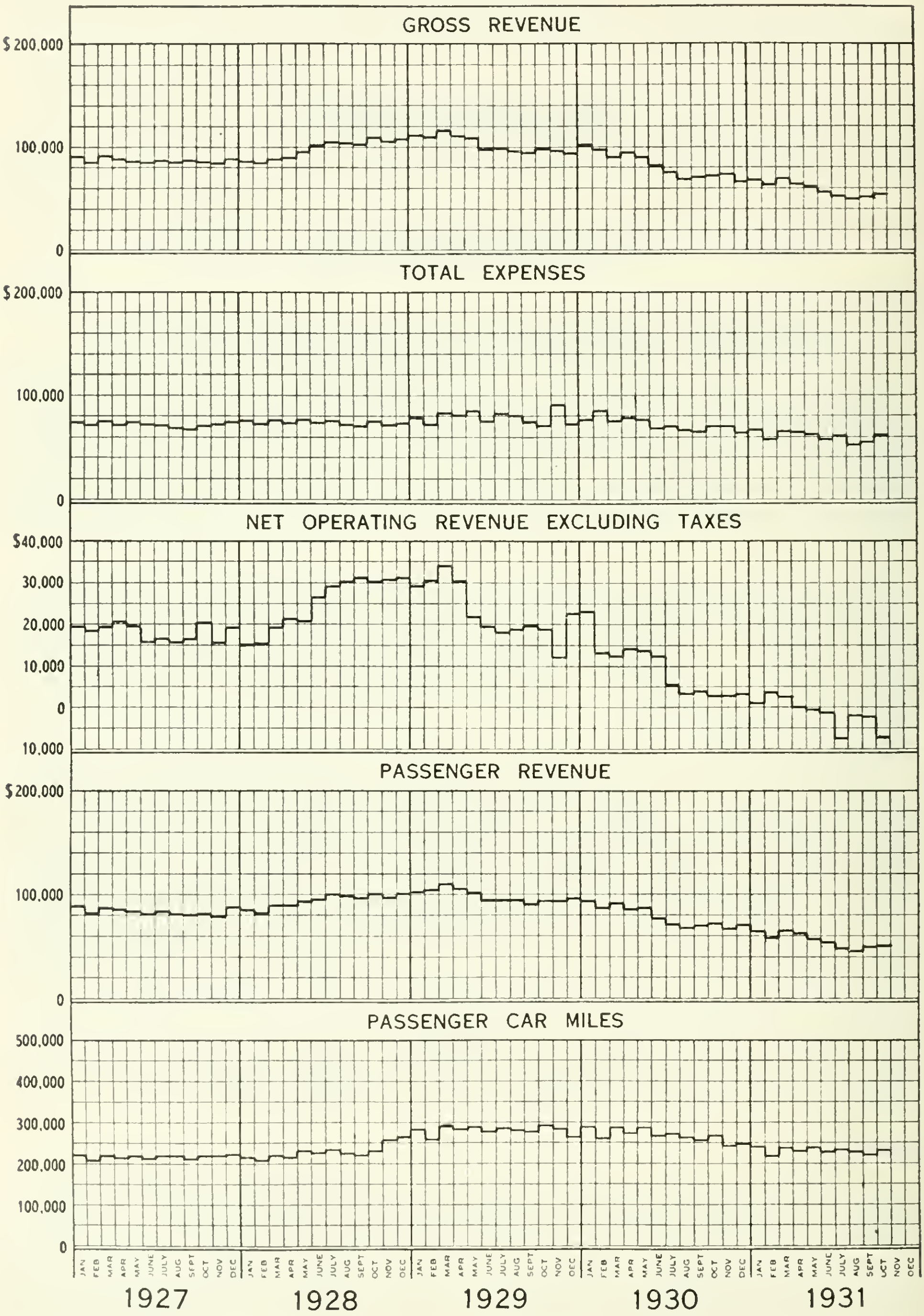
Way and Structures

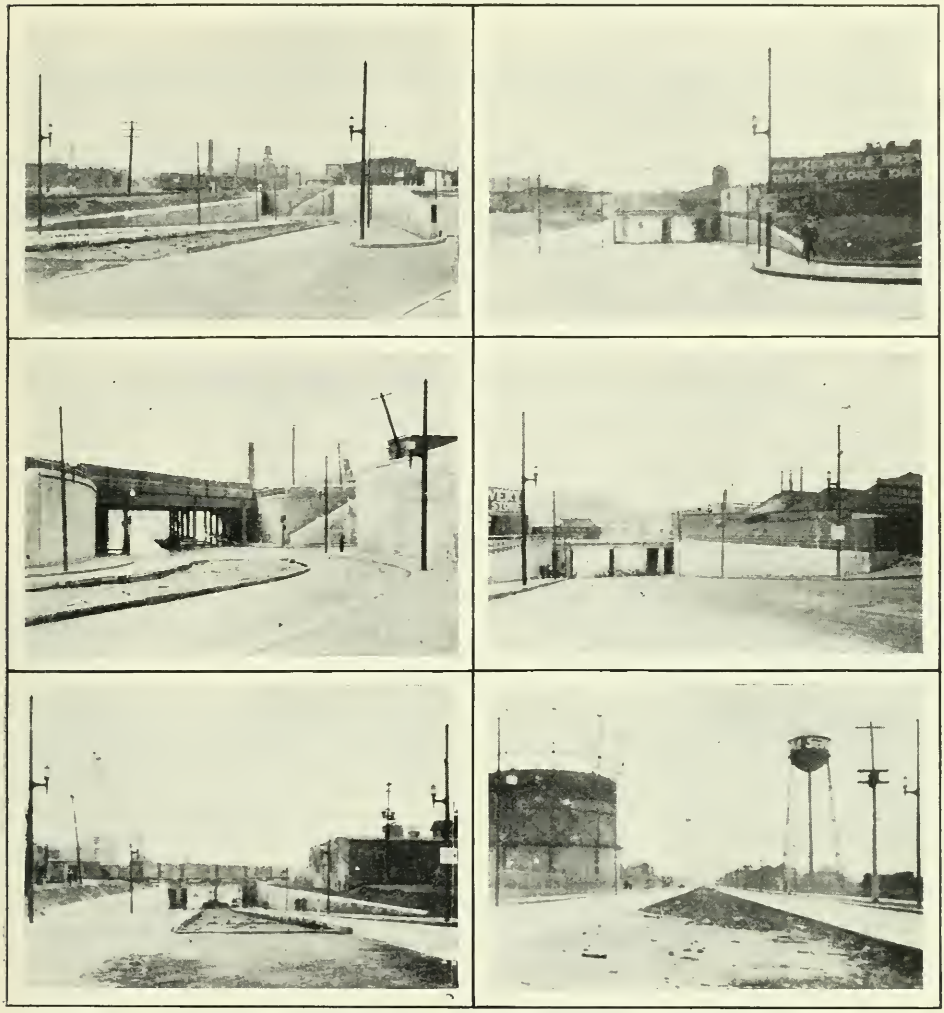
The construction of the new Wyandotte Street extension in Walkerville and East Windsor, commenced during the previous year, was continued, and under authorization of the Board of Railway Commissioners for Canada, the construction of the Pere Marquette subway was commenced on the 22nd of January. The extension of the double track street railway along the new street was constructed from Walker road in Walkerville to the east limits of the town only, the East Windsor portion of the track construction being deferred. The track work involved the removal of the loop at Walker road and the installation of standard monolithic double-track construction using 100-lb. A.R.A.-A. rail with thermit-welded joints and International twin steel ties. Operation over the new tracks commenced on the 9th of October, the street having been officially opened to vehicular traffic on the 3rd of that month.

Operation

In 1929, the passenger revenue was the largest in the history of the railway, amounting to $1,191,768 which was 244 per cent of the 1921 revenue. In 1931 this amounted to $687,471 or 141 per cent of the 1921 earnings. The 1929 gross earnings were $1,241,041 or 245 per cent of the 1921 earnings. In 1931 the gross earnings dropped to $726,044 or 143 per cent of the 1921 figure. The 1929 operating expenses were $929,689 or 218 per cent of the 1921 expenses;

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY OPERATING STATISTICS





SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Wyandotte Street Extension in Walkerville and East Windsor, showing on the left the C.N.R. subway and on the right the Pere Marquette subway and at the bottom right, the Wyandotte Extension at the Ford motor plant.

in 1931 the expenses were $732,184 or 172 per cent of the 1921 expenses. Net earnings in 1929 were $311,353 or 393 per cent of the 1921 net. In 1931 there was an operating deficit of $6,140 before credit received for the 13th power bill, which will likely wipe out this deficit.

The operation of jitney taxi cabs, at a 15-cent fare for four passengers in certain areas, has adversely affected passenger revenue to an extent estimated at from $60,000 to $80,000 during the year. It is expected that this condition will be remedied in the near future.

Bus operations have been gradually eliminated. The Howard Avenue line was discontinued on December 16, Campbell Avenue line on June 20, Lincoln Road on October 31.

The accompanying chart indicates the progress of the Railway for the past five years.

The mileage operated by the various types of cars and buses during the year is as follows: double truck, air brakes, two-man cars, 76,824 car-miles; interurban cars 527,542 car-miles; single truck safety cars 543,573 car-miles; double truck safety cars, 1,495,072 car-miles; express cars, 11,022 car-miles; buses, 146,481 bus-miles; service cars, 30,913 car-miles; total, 2,831,427 car and bus-miles.

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Operating Statistics, 1931

Route-miles:		
City trolley	24.29	
City bus	3.50	
Amherstburg interurban	13.54	
Tecumseh interurban	6.10	
Total route-miles		47.43
Passenger and freight car-miles operated		2,800,514
Passenger and freight car-hours operated		298,813
Passengers carried		12,093,732
Percentage of transfer passengers to revenue passengers		18.822
Passenger cars operated		67
Passenger buses operated		10
Passengers carried per route-mile		254,980
Passengers carried per car-mile		4.335
Passengers carried per car-hour		40.847
Average mileage per car operated		39,448
Average mileage per bus operated		14,648
Average passengers per car operated		177,050
Average passengers per bus operated		23,137
Freight tonnage carried		1,471

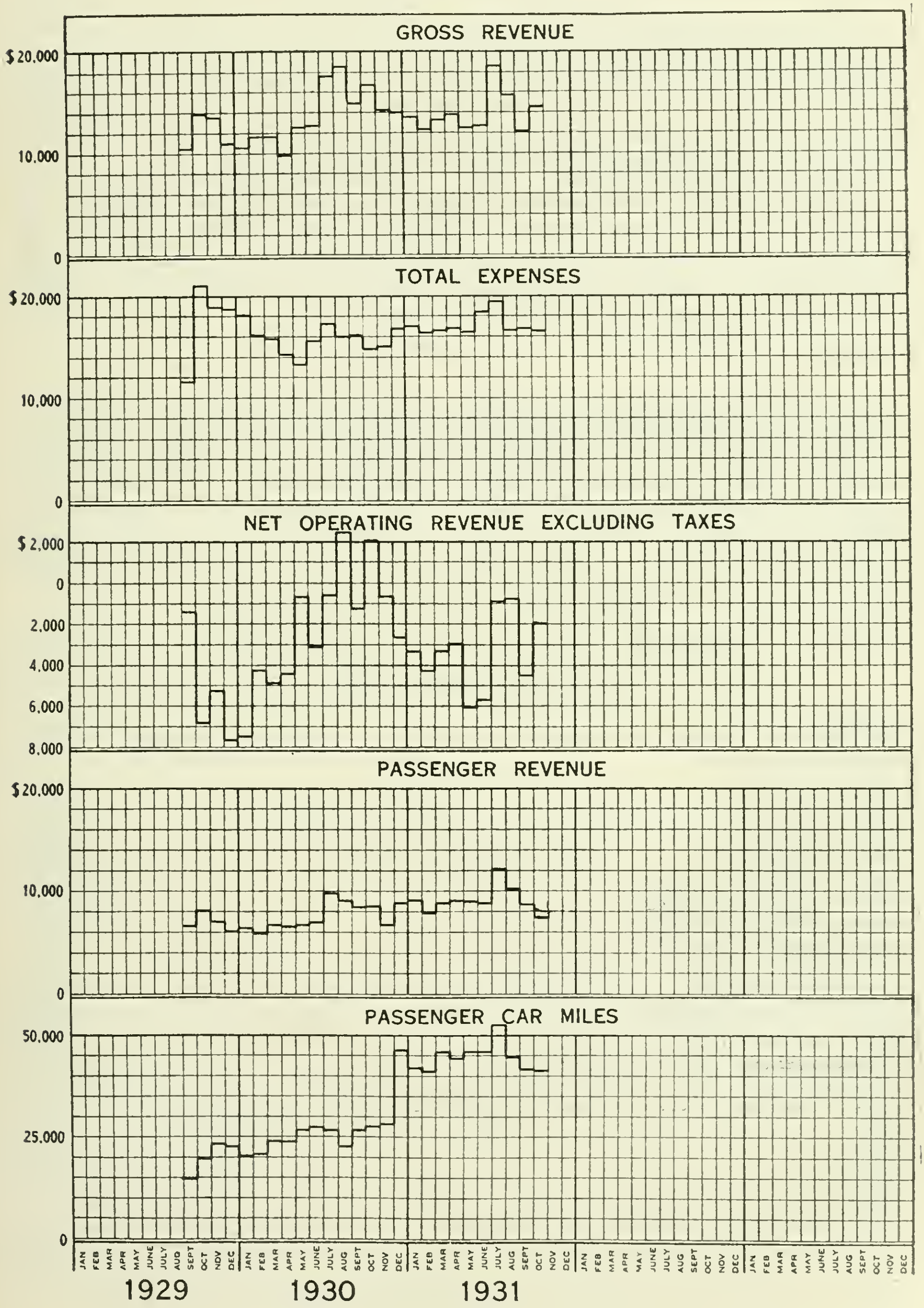
Accidents 389 of which 264 were automobile accidents.
Accidents per 100,000 car miles: 13.328.

WINDSOR, ESSEX & LAKE SHORE RAILWAY

On September 8, 1929, the operation of the Windsor, Essex and Lake Shore Rapid Railway was taken over by the Commission under agreement with the Windsor, Essex and Lake Shore Electric Railway Association, the latter body, representing a number of municipalities traversed by the railway, having purchased the line from the original owners, the Windsor, Essex and Lake Shore Rapid Railway Company, at a cost of $296,000.

This railway consists of 36.12 miles of standard gauge single-track extending from the intersection of Pitt street and Ouelette avenue in downtown Windsor to Leamington, with numerous industrial sidings along the route. In Windsor, Essex, Cottam, Kingsville and Leamington the track is situated in the centre of the street, while on the balance of the line it is constructed on a narrow strip of private right-of-way of varying widths, adjacent to the highway.

WINDSOR, ESSEX AND LAKE SHORE RAILWAY OPERATING STATISTICS



Way and Structures

Rehabilitation work on the track and overhead system was completed early in the year and the system has been maintained to a satisfactory standard.

A loop track was constructed on Howard avenue to provide for the operation of a local service. The loop is located at the south west corner of the intersection of Howard avenue and Grand Marais road, on land leased from the Michigan Central Railway. Block signals were installed on Howard avenue to govern both local and interurban services, and at Colchester siding near the town of Essex, this being the passing point for the interurban service.

The interlocking plant at Pelton, governing the grade crossings of the Windsor, Essex and Lake Shore and Michigan Central Railways, over the Pere Marquette Railway, having been destroyed by fire was rebuilt by the Pere Marquette Company, the Windsor, Essex and Lake Shore Railway's share of the cost of reconstruction being 20 per cent.

Operation

In 1926 the revenue was $245,000. This fell to $158,000 in 1929 mainly on account of the dilapidated condition of the tracks and equipment. Following the complete rehabilitation of the system in 1930, it was anticipated that there would be a rapid growth in the business of the railway, which, with the resultant economies in operation, would enable the road to pay its way. Owing to the industrial depression in 1931 these expectations were not realized, the earnings amounting to $166,713. Operating expenses amounted to $202,546.51 including $33,053.94 for the local service on Howard avenue, Windsor.

WINDSOR, ESSEX AND LAKE SHORE RAILWAY

Operating Statistics, 1931

Route-miles	39.747
Track-miles	45.802
Passenger cars operated	5
Buses operated	1
Passenger car-miles operated	466,121
Bus-miles operated	4,844
Freight locomotive miles	32,967
Express car-miles	14,840
Passenger car-hours operated	34,593
Passenger bus-hours operated	774
Revenue passengers carried	694,053
Transfer passengers carried	93,201
Free passengers carried	10,633
Total passengers carried	797,887
Percentage of transfer passengers to revenue passengers, local lines	18
Freight motor-cars operated	4
Freight motor-hours operated	5,224
Total passenger and freight car-miles operated	518,772

Accidents, 65.

Accidents per 100,000 car-miles, 12.5 in 1931; 21 in 1930.

GUELPH DISTRICT RAILWAYS

Way and Structures, and Equipment

The track and equipment of the system has been maintained to a satisfactory standard throughout the year. No capital construction has been undertaken.

Operation

The operating revenue for the Guelph District Railways for 1931 was $77,532 as compared with $86,278 in 1930. The total operating expenses for the year 1931 were $78,284 as compared with $81,091 in 1930. Taxes for the year 1931 amounted to $363 as compared with $515 in 1930. The net operating shortage for the year 1931 was $752 as compared with a net revenue of $5,187 in 1930. The interest and debenture payments were $26,954 as compared with $26,900 in 1930. At the request of the Guelph City Council no renewal was set aside in 1931, in 1930, $10,701 was set aside. The deficit for 1931 was $29,649 as compared with $32,929 in 1930.

Included in the above deficit is $7,640 which has been set aside for amortizing the original value of the railway line previous to the transfer of this road to the Hydro-Electric Power Commission; and also an interest charge of $4,060.

The freight earnings for the year 1931 were $10,484 as compared with $9,809 in 1930, but the number of passengers carried was 1,328,781 as compared with 1,608,906 in 1930.

Bus service on Suffolk avenue was substituted for car service and one bus operated on Eramosa hill. This latter service is not warranted by the business but the city required that this district be served. The operation of one bus on chartered trips earned $3,348 and this business should increase.

The Canadian Gypsum Company is enlarging its sphere of operations which will be beneficial to the railway.

GUELPH DISTRICT RAILWAYS

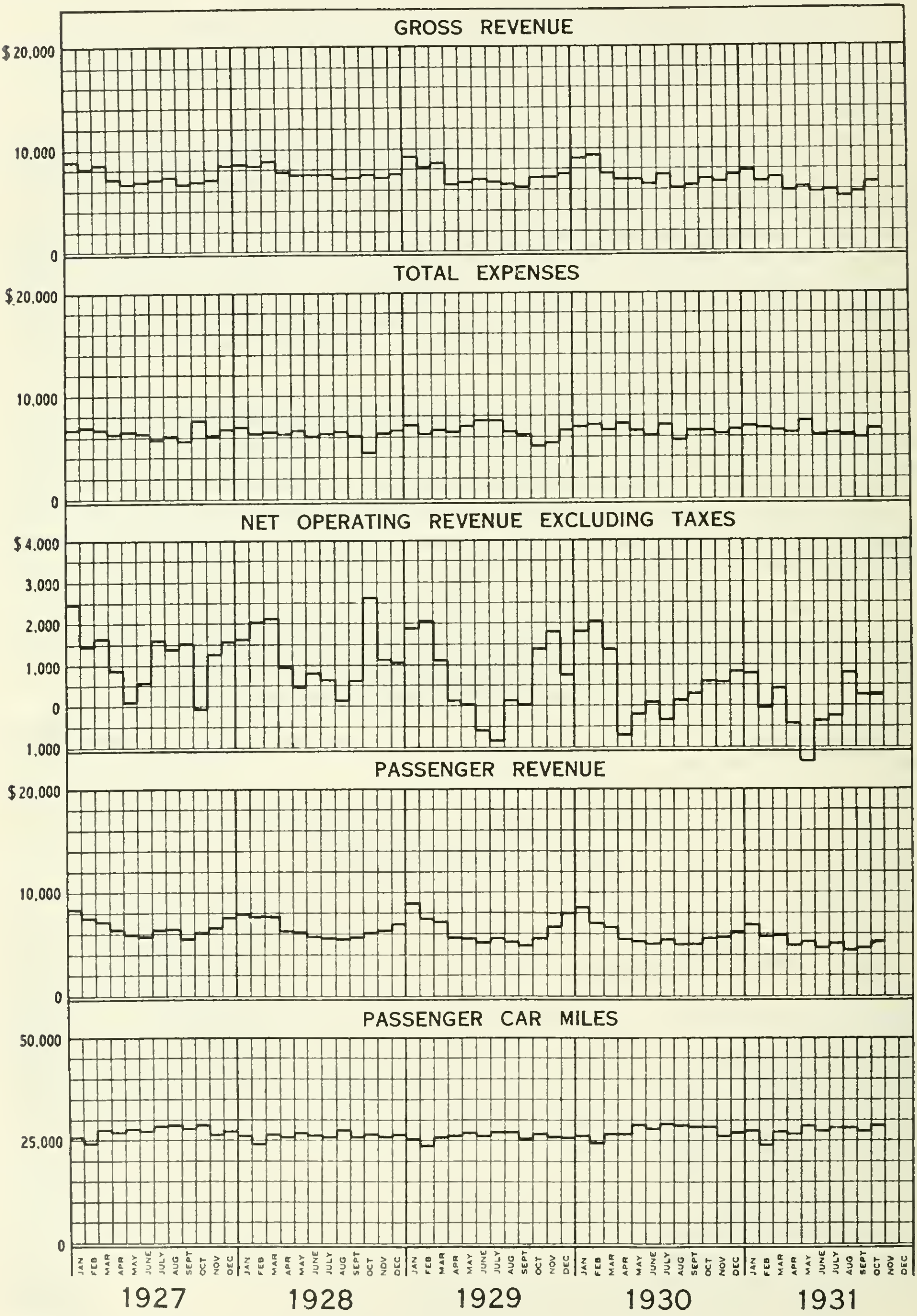
Operating Statistics, 1931

Route-miles:		
Trolley	6.41	
Bus	2.65	
Total route-miles		9.06
Track-miles		8.50
Passenger cars operated		7
Buses operated		4
Passenger car-miles operated		230,063
Bus-miles operated		95,776
Freight locomotive miles		10,769
Passenger car-hours operated		27,645
Passenger bus-hours operated		13,985
Revenue passengers carried		1,119,806
Transfer passengers carried		281,067
Free passengers carried		908
Total passengers carried		1,401,781
Percentage of transfer passengers to revenue passengers		25.099
Freight motor cars operated		1
Freight motor-hours operated		2,459
Total passenger, freight and service car-miles operated		336,878

Accidents:—fifteen, of which ten were due to automobiles.

Accidents per 100,000 car-miles—1927, 8.24; 1928, 4.25; 1929, 12.3; 1930, 7.2; 1931, 4.452.

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to Properties Operated by The Hydro-Electric Power Commission on Behalf of Municipalities

The following explanatory statement is submitted with a view to affording a satisfactory understanding of the manner in which the various operations of the Hydro-Electric Power Commission of Ontario are conducted and financed and thus contributing to the interest of those concerned either directly or indirectly with the work of the Commission.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of the Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by the Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, the Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.* The financial statements relating to the rural power districts are also presented in this section of the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of the Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

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*For further information respecting rural power districts consult latter portion of Section III in this Report.

Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses—including appropriations for reserves—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such direct expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently, as capital obligations are discharged the plant will progressively be freed from interest expense. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

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*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

The acounts of the Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and are also duly audited.

Tabular Data

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertaking and relates to the properties constructed or otherwise acquired and being operated by the Commission as trustee for the municipalities of the various systems.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

Operating Account for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "Power purchased."*

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

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*Consult footnote on previous page.

Reserve for Renewals, which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

Reserve for Obsolescence and Contingencies, which gives similar information with respect to this reserve.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Sinking Fund Reserve, which summarizes the provisions made with respect to this fund.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserve to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of the Hydro-Electric Power Commission, and as administrator of its own local distribution system.

EAST WINDSOR "HYDRO" UTILITY

Operating Statement for the year 1931

REVENUE

Revenue from East Windsor "Hydro" customers for year.........$155,807.53

EXPENSES

Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See "Cost of Power" statement, page 168, for the City of East Windsor as follows:

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines together with administrative expenses........................$40,630.96

Interest on East Windsor's proportionate share of capital investment in generating plants, transformer stations and transmission lines	$35,838.82	
Sinking Fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	7,898.55	
Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	6,049.44	
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency or obsolescence expense	2,467 08	
		$92,884.85

Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:

Operation, maintenance and administrative expenses	$29,686.12	
Interest and fixed charges on debenture debt	10,802.73	
Depreciation charge	7,065.00	
		$47,553.85
Total expenses charged against revenue from customers of the East Windsor System		140,438.70
Net surplus for the year		$15,368.83

The municipality of East Windsor, situated at the western end of the Niagara system, 240 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in November, 1922. This Hydro utility complied with every monetary obligation imposed upon it by the Power Commission Act. With the close of the ninth year of operation, this utility's total assets are $568,322.59, liabilities, $209,186.34, and reserves and surplus, $359,136.25, as shown in the municipalities' balance sheets, in Section X, Statement "A."

By reference to this municipality's balance sheet, it will be noted that the East Windsor "Hydro" utility has created a sinking fund equity amounting to $99,513.31 in the Hydro-Electric Power Commission System.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in East Windsor have resulted in *average costs** to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 129 kilowatt-hours) 1.8 cents per kilowatt-hour; commercial light service 2.4 cents per kilowatt-hour. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C."

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*If proper differentiation be made by those undertaking research, between the very different entities of rates on the one hand and the derived quantities of average costs or revenues on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

Assets			
Niagara System:			
Generating Plants:			
Queenston-Chippawa development		$76,886,658.94	
Ontario Power development, including water rights		22,066,754.12	
Toronto Power development, including water rights		11,325,744.02	
Transmission Lines:			
Right-of-way		8,504,124.32	
Steel tower and wood pole lines		23,921,698.18	
Transformer stations		33,641,351.64	
		$176,346,331.22	
Distribution Lines:			
Rural power districts	$5,794,903.28		
Rural lines	35,527.44		
		5,830,430.72	
			$182,176,761.94
Undertakings and Companies acquired as at January 1, 1930, from Dominion Power and Transmission Company, Limited, under purchase agreement dated April 2, 1930, and supplemental agreement dated August 14, 1930 (See balance sheet on page 160)			21,489,434.83
Chats Falls Power development:			
Expenditures to date			4,835,702.51
Thunder Bay System:			
Nipigon generating plants		$15,652,338.88	
Transmission lines		1,902,190.15	
Transformer stations		851,102.00	
		$18,405,631.03	
Distribution lines:			
Rural power district		732.36	
			18,406,363.39
Georgian Bay System:			
Generating plants		$3,760,172.25	
Transmission lines		2,619,115.53	
Transformer stations		1,134,260.26	
		$7,513,548.04	
Distribution lines:			
Rural power districts	$624,147.12		
Rural lines	2,807.43		
Local distribution systems	62,942.87		
		689,897.42	
			8,203,445.46
Eastern Ontario System:			
Generating plants, including water rights		$11,282,761.58	
Surveys and engineering re power sites:			
On St. Lawrence River	$734,873.31		
On Ottawa River	96,254.85		
		831,128.16	
Properties purchased for power sites		50,413.68	
Transmission lines		4,094,548.61	
Transformer stations		2,533,034.20	
		$18,791,886 23	
Rural power districts	$1,409,957.87		
Local distribution systems:			
Electric	905,746.29		
Gas	26,137.37		
Water	291,437.60		
Rural lines	93,041.82		
Pulp mill	52,559.93		
		2,778,880.88	
			21,570,767.11
Carried forward			$256,682,475.24

COMMISSION OF ONTARIO

and Liabilities, October 31, 1931

TAKINGS

LIABILITIES

To Province of Ontario:			
Cash advances for Niagara and other systems		$200,827,676.36	
Less: Repayment under provisions of Power Commission Act		12,450,495.97	
			$188,377,180.39
Grant funds in the hands of the Commission to apply against rural power districts in course of construction or extension			113,266.19
Debentures issued by the Commission and guaranteed by the Province of Ontario:			
Four per cent debentures, due 1957, issued in purchase of Ontario Power Company of Niagara Falls	$8,000,000.00		
Interest accrued thereon	80,000.00		
		$8,080,000.00	
Six per cent debentures, due 1941, issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls	$3,200,000.00		
Interest accrued thereon	67,856.16		
		3,267,856.16	
Six per cent debentures, due 1940, issued in purchase of the Toronto Power Company, Limited	$413,200.00		
Interest accrued thereon	10,330.00		
		423,530.00	
Six per cent debentures, due 1940, issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway	$205,800.00		
Interest accrued thereon	5,145.00		
		210,945.00	
Five per cent debentures, due 1939, issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited	$4,000,000.00		
Interest accrued thereon	75,000.00		
		4,075,000.00	
Four per cent debentures, due 1958, issued in purchase of distribution lines of Essex County	$200,000.00		
Interest accrued thereon	3,333.34		
		203,333.34	
Four per cent debentures, due 1958, issued in purchase of distribution lines in vicinity of Thorold	$100,000.00		
Interest accrued thereon	1,666.67		
		101,666.67	
Four and three-quarter per cent debentures, due 1970, issued in part purchase of Undertakings and Companies from Dominion Power and Transmission Company, Limited, as at January 1, 1930	$13,000,000.00		
Interest accrued thereon	206,397.00		
		13,206,397.00	
Five per cent debentures, due 1935, issued in part purchase of Undertakings and Companies from Dominion Power and Transmission Company, Limited, as at January 1, 1930	$8,000,000.00		
Interest accrued thereon	133,698.00		
		8,133,698.00	
			$37,702,426.17
Carried forward			$226,192,872.75

HYDRO-ELECTRIC POWER
Detailed Statement of Assets
POWER UNDER

ASSETS			
Brought forward			$256,682,475.24
Sudbury district:			
Properties, buildings, plant, equipment and water rights on Wahnapitae river		$2,506,391.99	
Transmission lines		138,765.48	
Transformer stations		41,730.99	
		$2,686,888.46	
Local distribution systems		6,630.43	
			2,693,518.89
Abitibi—Sudbury line:			
Transmission line and equipment			2,082,077.92
Patricia district:			
Ear Falls generating plant			483,658.90
Bonnechere River Storage:			
Round Lake dam			51,629.23
Service Buildings and Equipment:			
Service building and equipment, Toronto		$502,684.85	
Equipment of storehouse and garage, Hamilton		3,666.40	
Pole yard and equipment, Cobourg		22,000.71	
			528,351.96
Office Buildings:			
On University Avenue, Toronto		$525,007.00	
On corner Elm Street and Centre Avenue, Toronto		160,821.95	
			685,828.95
Office Furniture and Equipment:			
At Toronto office		$76,704.97	
At Electrical Inspection offices		11,364.82	
			88,069.79
Automobiles and Trucks			8,662.20
Inventories:			
Construction and maintenance tools and equipment		$854,977.56	
Construction material and sundry supplies		888,935.09	
Maintenance material and supplies		602,409.40	
Stationery and office supplies		27,106.23	
			2,373,428.28
Sinking Funds:			
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act	$12,450,495.97		
Employed in retirement of bonds issued or assumed by the Commission and guaranteed by the Province of Ontario	6,476,787.14		
	$18,927,283.11		
Invested in securities of the Province of of Ontario, which stand—			
(*a*) Deposited with Provincial Treasurer, par value, $1,751,000.00		$1,726,489.26	
(*b*) In the hands of the Commission, par value, $350,000.00		359,775.82	
Interest accrued thereon		27,427.22	
			2,113,692.30
Carried forward			$267,791,393.66

COMMISSION OF ONTARIO
and Liabilities, October, 31, 1931

TAKINGS—Continued

LIABILITIES

Brought forward			$226,192,872.75
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario:			
First mortgage 5 per cent. gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917	$9,834,000.00		
Less: Retired by the Commission	1,817,000.00		
	$8,017,000.00		
Interest accrued thereon	100,212.50		
		$8,117,212.50	
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917	$1,772,000.00		
Less: Retired by the Commission	437,000.00		
	$1,335,000.00		
Interest thereon payable November 1, 1931	33,375.00		
		1,368,375.00	
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920	$13,558,917.81		
Less: Retired by the Commission	7,036,031.98		
	$6,522,885.83		
Interest thereon payable November 1, 1931	146,764.91		
		6,669,650.74	
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920	$4,335,000.00		
Less: Retired by the Commission	981,500.00		
	$3,353,500.00		
Interest accrued thereon	27,945.83		
		3,381,445.83	
			19,536,684.07
Other debentures assumed:			
In respect of purchase of lines at Streetsville:			
Amount assumed at date of purchase	$6,000.00		
Less: Retired by the Commission	4,688.87		
	$1,311.13		
Interest accrued thereon	32.78		
		1,343.91	
In respect of purchase of original Muskoka Power Development:			
Amount assumed at date of purchase	$50,595.93		
Less: Retired by the Commission	28,736.17		
	$21,859.76		
Interest accrued thereon	828.55		
		22,688.31	
In respect of purchase of sundry rural lines:			
Amount assumed at dates of purchase	$69,289.85		
Less: Retired by the Commission	25,535.73		
	$43,754.12		
Interest accrued thereon	932.77		
		44,686.89	
			68,719.11
Carried forward			$245,798,275.93

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

POWER UNDER

Assets		
Brought forward		$267,791,393.66
Insurance Funds:		
(*a*) Invested in securities of the Dominion of Canada, par value, $850,000.00	$859,581.49	
(*b*) Invested in securities of the Province of Ontario, par value, $28,000.00	28,840.51	
Interest accrued thereon	1,443.74	
		889,865.74
Staff Pension Funds:		
Invested in securities of the Province of Ontario, par value, $2,465,000.00	$2,424,180.12	
Interest accrued thereon	27,758.72	
		2,451,938.84
Reserve Funds:		
(*a*) Invested in securities of the Dominion of Canada, par value, $3,251,850.00	$3,251,541.92	
(*b*) Invested in securities of the Canadian National Railway, guaranteed by the Dominion of Canada, par value, $950,000.00	966,384.45	
(*c*) Invested in securities of the Province of Ontario, par value, $27,618,500.00	27,295,589.11	
(*d*) Invested in securities of the Commission, guaranteed by the Province of Ontario, par value, $1,200,000.00	1,186,510.31	
(*e*) Invested in securities of the Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario, par value, $240,000.00	205,987.85	
(*f*) Invested in debentures of Ontario municipalities, which debentures were received from certain municipalities upon the sale thereto of their local distribution systems, par value, $1,219,734.24	993,633.99	
Interest accrued thereon	409,023.84	
		34,308,671.47
Securities taken over by the Commission upon the transfer to it of the assets of Galetta Electric Power & Milling Company, Limited (par value $36,500.00) at the cost thereof	$18,560.00	
Interest accrued thereon	673.36	
		19,233.36
Cash:		
In banks	$443,661.35	
In banks to pay bond interest due November 1, 1931, and interest coupons overdue but not presented	204,894.23	
Sinking funds on deposit with trustees for bondholders	521.23	
In hands of employees as advances on account of expenses	101,199.82	
	$750,276.63	
Less Funds of Hydro Radial Railways shown elsewhere in this balance sheet	33,136.83	
		717,139.80
Carried forward		$306,178,242.87

COMMISSION OF ONTARIO
and Liabilities, October 30, 1931
TAKINGS—Continued

LIABILITIES

Brought forward		$245,798,275.93
Outstanding share capital of the Electrical Development Company of Ontario, Limited	$600.00	
Galetta Electric Power and Milling Company, Limited	580.00	
		1,180.00
Accounts payable	$1,209,483.44	
Interest coupons due but not presented for payment	24,754.32	
		1,234,237.76
Hydro-Electric Power Commission, Hamilton Office Current Account (See balance sheet on page 161)		541,387.71
Insurance Department:		
Outstanding claims and awards	$809,729.71	
Surplus	115,261.85	
		924,991.56
Reserve for Staff Pensions		2,513,803.20
Balances due to municipalities in respect of amounts paid by them to October 31, 1931, in excess of the cost of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system	$1,371,226.81	
Thunder Bay system	546.08	
Georgian Bay system	35,724.47	
Eastern Ontario system	132,491.81	
		1,539,989.17
Reserves for Sinking Fund:		
Niagara system	$19,068,293.89	
Niagara rural lines	11,780.27	
Thunder Bay system	721,533.64	
Georgian Bay system	701,427.54	
Georgian Bay rural lines	687.23	
Eastern Ontario system	659,715.86	
	$21,163,438.43	
Service building and equipment	100,693.86	
Office buildings	130,840.59	
		21,394,972.88
Reserves for Renewals:		
Niagara system	$14,787,015.89	
Niagara rural lines	4,396.36	
Thunder Bay system	955,143.80	
Georgian Bay system	1,151,574.58	
Georgian Bay rural lines	372.23	
Eastern Ontario system	2,950,570.04	
Sudbury district	26,874.94	
Patricia District	5,674.60	
	$19,881,622.44	
Service building and equipment	283,328.16	
Office buildings	101,874.49	
		20,266,825.09
Reserves for Obsolescence and Contingencies:		
Niagara system	$14,629,578.26	
Niagara rural lines	2,147.62	
Thunder Bay system	920,639.40	
Georgian Bay system	343,311.87	
Georgian Bay rural lines	152.64	
Eastern Ontario system	1,254,868.33	
Sudbury district	54,392.24	
		17,205,090.36
Balance at credit of interest account		20,523.70
Contingent liabilities:		
In respect of contracts entered into for power undertakings in course of construction..$2,668,465.85		
Carried forward		$311,441,277.36

HYDRO-ELECTRIC POWER
Detailed Statement of Assets
POWER UNDER

ASSETS			
Brought forward			$306,178,242.87
Accounts receivable:			
Due by municipalities and sundry customers in respect of construction work, supply sales, etc	$465,367.79		
Less Reserve for doubtful accounts	15,631.31		
		$449,736.48	
Due by municipalities and sundry customers in respect of power accounts	$3,664,853.37		
Less Reserve for doubtful accounts	397,451.94		
		3,267,401.43	
Sinking fund and interest accounts owing in respect of rural lines		4,104.82	
Claim against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921		72,334.46	
			3,793,577.19
Balances due by municipalities in respect of the costs of power supplied to them, as provided to be paid under the Power Commission Act:			
Niagara System		$92,879.58	
Georgian Bay System		97,438.78	
Eastern Ontario System		55,137.96	
Thunder Bay System		43,488.95	
			288,945.27
Rural Loans:			
Total loans granted		$23,542.00	
Instalments of principal received		445.99	
		$23,096.01	
Interest instalments due		165.98	
			23,261.99
Work in progress:			
Expenditure on account of various systems chargeable upon completion to—			
Capital construction		$4,677.32	
Operating and maintenance expenses		40,930.33	
			45,607.65
Insurance unexpired			25,671.51
Discount on debentures issued by the Commission, *less* amounts written off:			
On debenture issue of $3,200,000 maturing 1941		$83,298.81	
On debenture issue of $4,000,000 maturing 1939		54,691.20	
			137,990.01
Total Power Undertakings			$310,493,296.49

COMMISSION OF ONTARIO
and Liabilities, October 31, 1931
TAKINGS—Continued

LIABILITIES

Brought forward	$311,441,277.36
Total Power Undertakings	$311,441,277.36

Detailed Statement of Assets

RADIAL RAILWAY

ASSETS			
Brought forward			$310,493,296.49
Guelph Radial Railway:			
Road and equipment		$444,070.06	
Materials and supplies		5,787.39	
Reserve funds:			
Invested in securities of the Province of Ontario (par value $25,000.00)	$22,465.65		
Interest accrued thereon	474.59		
		22,940.24	
Cash:			
In the general bank account of the Commission at Toronto	$33,136.83		
In bank at Guelph	1,338.44		
In hands of employees as advances on account of expenses	1,500.00		
Accounts receivable	927.95		
		36,903.22	
Insurance and expenses prepaid		1,169.92	
			$510,870.83
Sandwich, Windsor & Amherstburg Railway Company:			
Undertaking of the Sandwich, Windsor and Amherstburg Railway Company to repay the Hydro Radial debentures issued in purchase of, and for the extension and betterment of the Sandwich, Windsor and Amherstburg Railway—as per agreement covering the transfer at July 31, 1931, of the Railway by the Commission to the Company		$5,816,205.00	
Interest accrued on such debentures		61,839.63	
NOTE.—The above-mentioned Hydro Radial debentures are: under Statute of 1930 and under Trust Deed dated July 31, 1931, in favour of the Guaranty Trust Company, as Trustee, secured by— (*a*) A charge upon the properties of the Railway. (*b*) Debentures of the eleven municipalities which own the Railway Company, to the aggregate amount of $5,816,205.00.			$5,878,044.63
Carried forward			$316,882,211.95

COMMISSION OF ONTARIO
and Liabilities, October 31, 1931
UNDERTAKINGS

LIABILITIES

Brought forward			$311,441,277.36
In respect of the Guelph Radial Railway:			
City of Guelph—Purchase price of the Railway payable thereto, in half yearly instalments according to purchase agreement	$150,000.00		
Less: Twenty-one instalments thereon	65,518.23	$84,481.77	
Debentures issued by the Commission and guaranteed by the Province of Ontario: Five per cent debentures, due 1970, issued for the purpose of making extensions and betterments		300,000.00	
City of Guelph—Excess payment in respect of deficit		3,351.50	
Accounts payable and accrued charges	$1,358.25		
Provision for unredeemed tickets	1,300.00	2,658.25	
Premium on sale of debentures—Less portion written off		21,650.51	
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph		65,518.23	
Reserve for sinking fund		1,579.50	
Reserve for renewal of road and equipment		31,631.07	510,870.83
In respect of the Sandwich, Windsor and Amherstburg Railway Company:			
Debentures issued by the Commission in purchase of the Railway and for extensions and betterments thereto—guaranteed by the Province of Ontario:			
Four and one-half per cent debentures due April 1, 1960,		$2,100,000.00	
Six per cent debentures, due July 1, 1961		900,000.00	
Five per cent debentures, due September 1, 1943		966,205.00	
Five per cent debentures, due July 1, 1945		750,000.00	
Five per cent debentures, due September 1, 1945		100,000.00	
Five per cent debentures, due July 15, 1946		1,000,000.00	
		$5,816,205.00	
Interest accrued thereon		61,839.63	$5,878,044.63
Carried forward			$317,830,192.82

HYDRO-ELECTRIC POWER

Detailed Statement of Assets

RADIAL RAILWAY

ASSETS		
Brought forward		$316,882,211.95
Toronto and York Radial Railway:		
City of Toronto—debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial Railway—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto	$2,375,000.00	
City of Toronto—interest accrued on $2,375,000 debentures issued by the Commission in purchase of the Toronto and York Radial Railway	59,375.00	
		2,434,375.00
Port Credit to St. Catharines Radial Railway:		
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1931	$72,885.06	
Construction materials purchased, less amount realized on sale thereof	117,510.09	
Surveying, engineering, administrative expenses and interest	343,748.39	
		534,143.54
Toronto to Port Credit Radial Railway:		
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1931—less amounts realized on properties sold	$462,409.17	
Surveying, engineering, administrative expenses and interest	451,428.16	
		913,837.33
		$320,764,567.82

COMMISSION OF ONTARIO

and Liabilities, October 31, 1931

UNDERTAKINGS—Continued

LIABILITIES		
Brought forward		$317,830,192.82
In respect of Toronto and York Radial Railway:		
Debentures issued by the Commission and guaranteed by the Province of Ontario:		
Six per cent. debentures, due 1940, issued in purchase of the Metropolitan, Scarboro and Mimico Radial Railway divisions	$2,375,000.00	
Interest accrued thereon	59,375.00	
		$2,434,375.00
In respect of the Port Credit to St. Catharines Radial Railway:		
Bank of Montreal—advances (secured by hypothecation of $1,200,000 Hydro Radial debentures, being part of an issue of $11,360,363 guaranteed by the Province of Ontario)		500,000.00
		$320,764,567.82

HYDRO-ELECTRIC POWER

Statement of Assets and Liabilities—as at 31st October, 1931—

DOMINION POWER AND

Assets

Properties, buildings, plants, lines, equipment, franchises, water-rights, contracts, etc., at the cost thereof to the Commission as at 1st January, 1930		$21,000,000.00	
Net additions in the period 1st January, 1930, to 31st October, 1931		194,901.01	
		$21,194,901.01	
Deduct:			
Sales of certain properties, plants and equipment	$3,103,743.99		
Provisions for depreciation on buses, less charges thereagainst, in the period 1st January, 1930, to 31st October, 1931	70,660.21		
		3,174,404.20	
			$18,020,496.81
Balances owing under agreements covering sales of certain properties, plants and equipment:			
By Canada Coach Lines Limited		$600,000.00	
Accrued interest thereon		12,657.50	
			612,657.50
By City of Hamilton		$2,125,000.00	
Accrued interest thereon		53,125.00	
			2,178,125.00
Shares (1,000) of First Preferred stock of Canada Coach Lines Limited—at par			100,000.00
Current assets:			
Cash in banks and on hand		$196,363.78	
Cash in hands of employees		11,219.36	
Accounts receivable		258,445.52	
Materials and stores		151,511.03	
Insurance deposits and prepayments		25,991.14	
Power and light revenue accrued		12,213.92	
			655,744.75
Hydro-Electric Power Commission—Toronto Office:			
Current account		$881,482.71	
Less: Accrued interest on Commission's Bonds charged by Commission		340,095.00	
			541,387.71
			$22,108,411.77

COMMISSION OF ONTARIO

of Undertakings and Companies Acquired 1st January, 1930, from

TRANSMISSION COMPANY, LIMITED

LIABILITIES

Hydro-Electric Power Commission of Ontario:			
Bonds issued by the Commission, and guaranteed by the Province, in purchase of the undertakings and Companies		$21,000,000.00	
Cash paid by the Commission in purchase of inventories, accounts receivable and cash working funds		489,434.83	$21,489,434.83
Current liabilities:			
Accounts payable		$459,325.69	
Dominion Power Company—on adjustments		6,141.66	
Customers' deposits		1,778.72	
Realty and business taxes payable and accrued		28,125.32	
Pensions awarded (Approximate actuarial liability)	$56,722.38		
Less: Deposits thereagainst	53,625.88		
		3,096.50	
Provision for accident claims		10,828.00	
Provision for outstanding tickets		7,200.00	
Reserve against accounts receivable		40,407.40	
Reserve for contingencies		10,000.00	
			566,903.29
Surplus—For period 1st January, 1930, to 31st October, 1931, after making provision for interest on the bonds of the Commission issued in purchase of the undertakings and companies, but before provision for depreciation on plants and equipment other than on the buses			52,073.65
			$22,108,411.77

HYDRO-ELECTRIC POWER

Statement of Revenue and Expenditure for the year ending 31st October,

DOMINION POWER AND

Expenditure

Of power and light plants and utilities—		
Cost of operating and maintaining generating plants, transmission lines, stations and distribution systems	$434,240.62	
Water rentals	175,269.44	
Power purchased	162,581.65	
Taxes—realty and business	86,615.32	
Commercial expenses	39,528.44	
General administrative expenses—proportion	110,900.79	
Bad debts written off	783.62	
		$1,009,919.88
Of Hamilton Street Railway, Radial Railways and Bus Lines—		
Cost of operating and maintaining buildings, rights-of-way, rolling stock, buses and other equipment	$1,010,801.76	
Electric power (including power purchased from the City of Hamilton)	180,999.60	
Depreciation on buses	99,941.39	
Taxes—realty and business	106,675.10	
General and administrative expenses—proportion	143,541.04	
Bad debts written off	142.65	
		1,542,101.54
Of Hamilton Terminal Building—		
Wages, heating, power, light and sundry expenses	$14,748.80	
Taxes—realty and business	13,269.19	
General and administrative expenses—proportion	1,956.86	
		29,974.85
		$2,581,996.27
Interest on the bonds issued by the Commission, and guaranteed by the Province of Ontario, in purchase of the undertakings and companies		1,017,500.00
		$3,599,496.27
Excess of revenue over expenditure of bus company sold 29th May, 1931		8,502.37
Surplus for the year ending 31st October, 1931, before provision for depreciation on plants and equipment, other than on the buses		10,417.21
		$3,618,415.85
Surplus for the whole period 1st January, 1930 to 31st October, 1931, after making provision for interest on the bonds of the Commission issued in purchase of the undertakings and companies, but before provision for depreciation on plants and equipment other than on the buses—as shown on Statement of Assets and Liabilities		$52,073.65
		$52,073.65

COMMISSION OF ONTARIO

1931—of Undertakings and Companies Acquired 1st January, 1930, from

TRANSMISSION COMPANY, LIMITED

Revenue

From power and light plants and utilities—		
Power and light sold to customers	$1,627,535.99	
Power supplied to Hamilton Street Railway and the radial railways	116,789.45	
Power and light supplied to the buildings, shops and services of the associated companies—approximately	7,500.00	$1,751,825.44
From Hamilton Street Railway, Radial Railways and Bus Lines—		
Passenger, freight and miscellaneous		1,736,988.10
From Hamilton Terminal Building—		
Rentals (including those charged the Commission and associated companies)		47,693.97
Interest (including interest receivable under sale agreements)		81,908.34
		$3,618,415.85

Surplus (after adjustments) for the period 1st January to 31st October, 1930, before provision for depreciation on plants and equipment other than the buses	$41,656.44
Surplus for the year ending 31st October, 1931, before provision for depreciation on plants and equipment other than the buses	10,417.21
	$52,073.65

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Undertakings and Companies Acquired 1st January, 1930, from Dominion Power Transmission Company, Limited, under provisions of Purchase Agreement dated 2nd April, 1930, and Supplemental Agreement dated 14th August, 1930

All the outstanding shares of the following companies:

1. Hamilton Cataract Power, Light and Traction Company, Limited, which Company in turn owns all the outstanding shares of the companies following:
    - (a) Hamilton Electric Light and Power Company, Limited.
    - (b) Hamilton Street Railway Company.
    - (c) Hamilton and Dundas Street Railway Company (not operating).
    - (d) Hamilton Radial Electric Railway Company (not operating).
    - (e) Dundas Electric Company, Limited.
    - (f) Lincoln Electric Light and Power Company, Limited.
    - (g) Hamilton Electric Light and Cataract Power Company (not operating).
2. Hamilton, Grimsby and Beamsville Electric Railway Company (ceased operating 30th June, 1931).
3. Brantford and Hamilton Electric Railway Company (ceased operating 30th June, 1931).
4. Hamilton Terminal Company, Limited.
5. Western Counties Electric Company, Limited.
6. Highway King Buses, Limited (sold 29th May, 1931).
7. Brantford Electric and Operating Company, Limited (not operating).

Steam generating plant located at Hamilton.

Certain real estate and rights-of-way.

NIAGARA

Operating Account for the

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased		$3,979,524.00
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment	$4,152,624.00	
Rural power districts	460,488.04	4,613,112.04
Interest on capital investment in:		
Generation and transmission equipment	$8,403,009.33	
Rural power districts	232,017.53	8,635,026.86
Provision for renewals of:		
Generation and transmission equipment	$1,182,306.01	
Rural power districts	208,799.24	1,391,105.25
Provision for obsolescence and contingencies in respect of:		
Generation and transmission equipment	$513,420.67	
Rural power districts	104,399.62	617,820.29
Provision for sinking funds for repayment of the cash advances by the Province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:		
By charges included in the cost of power delivered to municipalities and rural power districts	$1,327,279.39	
By charges against contracts with private companies which purchase power	489,950.94	
By charges included in the cost of distribution of power within rural power districts	55,496.81	1,872,727.14
		$21,109,315.58

SYSTEM

Year Ending October 31, 1931

REVENUE FOR PERIOD

Collected from municipalities	$14,925,527.48	
Power sold to private companies	4,934,718.20	
Power supplied at cost to Sandwich, Windsor and Amherstburg Railway Company and Windsor, Essex and Lake Shore Radial Railway Association	121,922.84	
Collected from customers in rural power districts	1,888,536.58	
		$21,870,705.10
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year	$47,508.16	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year	27,335.42	
		74,843.58
		$21,945,548.68
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$694,921.68	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	141,311.42	
		836,233.10
Revenue		$21,109,315.58

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Acton	......	33.00	204,876.65	760.7	3,601.37	5,866.70	9,600.33
Agincourt	42.00	40.00	44,145.31	138.2	654.28	1,314.12	2,047.69
Ailsa Craig	......	48.00	41,812.72	120.0	568.11	1,832.41	1,917.01
Alvinston	......	90.00	62,977.72	87.0	411.88	2,278.71	2,815.46
Amherstburg	......	40.00	177,166.28	634.6	3,004.38	6,882.66	8,270.72
Ancaster twp	......	30.00	54,765.57	263.3	1,118.71	1,813.93	2,585.70
Arkona	......	75.00	31,003.01	55.2	261.33	1,481.08	1,402.96
Aylmer	36.00	35.00	125,870.32	464.3	2,198.13	4,594.97	5,862.48
Ayr	......	35.00	50,325.22	200.0	946.86	1,629.63	2,369.11
Baden	......	32.00	68,720.87	273.8	1,296.25	2,192.77	3,202.99
Barton twp	......	30.00	2,528.70	12.5	59.18	370.89	112.89
Beachville	......	33.00	75,050.70	296.9	1,405.61	2,502.98	3,333.28
Belle River	......	38.00	37,437.36	138.7	656.65	1,736.13	1,754.83
Blenheim	......	39.00	105,977.59	367.4	1,739.38	4,489.19	4,917.02
Blyth	60.00	58.00	37,616.37	85.3	403.83	1,641.14	1,718.74
Bolton	......	44.00	38,941.30	118.7	561.96	1,891.34	1,809.44
Bothwell	......	44.00	32,453.82	99.6	471.53	1,652.08	1,476.48
Brampton	......	29.00	435,119.11	1,941.0	9,189.25	13,630.06	20,587.64
Brantford	......	27.00	2,009,229.14	9,228.3	43,689.41	48,840.33	95,125.80
Brantford twp	......	27.00	120,238.20	549.9	2,603.38	4,429.74	5,748.01
Bridgeport	32.00	34.00	24,151.36	107.4	508.46	1,362.87	1,152.69
Brigden	72.00	70.00	37,883.10	76.5	362.17	1,602.34	1,709.81
Brussels	......	52.00	51,627.10	128.4	607.88	2,313.13	2,368.06
Burford	38.00	35.00	37,680.18	145.7	689.79	1,222.66	1,722.11
Burgessville	......	43.00	18,588.55	56.1	265.59	889.28	829.85
Caledonia	......	29.00	68,938.45	294.4	1,393.77	2,059.55	3,252.35
Campbellville	......	60.00	7,287.85	25.0	118.36	830.53	341.15
Cayuga	55.00	50.00	29,557.46	86.5	409.52	1,288.34	1,362.29
Chatham	......	30.00	956,891.21	4,035.6	19,105.68	26,332.58	44,907.70
Chippawa	......	25.00	45,202.37	249.7	1,182.15	1,421.93	2,183.20
Clifford	......	56.00	27,654.88	60.2	285.00	1,393.75	1,262.54
Clinton	......	38.00	126,279.56	434.4	2,056.57	4,407.17	5,872.58
Comber	......	45.00	45,220.63	124.0	587.05	2,214.56	2,057.26
Cottam	45.00	44.00	21,731.34	67.8	320.98	822.36	1,001.24
Courtright	75.00	72.00	21,969.36	41.5	196.47	886.72	993.97
Dashwood	......	50.00	26,135.20	66.5	314.83	1,056.27	1,189.75
Delaware	......	36.00	8,911.88	36.0	170.43	499.11	418.26
Dorchester	......	38.00	20,365.18	74.6	353.18	843.17	945.80
Drayton	......	55.00	40,924.52	90.6	428.93	2,133.81	1,860.02
Dresden	......	45.00	95,297.76	295.2	1,397.56	4,166.93	4,392.29

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,807.44	671.63	2,131.67	837.70	24,516.84	25,102.26	585.42	....
400.55	128.05	458.37	152.19	5,155.25	5,569.53	414.28	....
427.18	129.45	436.91	132.15	5,443.22	5,758.80	315.58	....
793.60	189.38	659.71	95.81	7,244.55	7,826.25	581.70	....
1,545.19	575.59	1,839.34	698.83	22,816.71	25,381.95	2,565.24	....
425.53	171.94	564.79	260.22	6,940.82	7,090.00	149.18	....
368.12	93.77	323.52	60.79	3,991.57	4,142.47	150.90	....
1,101.96	395.34	1,303.79	511.30	15,967.97	16,340.33	372.36	....
420.95	159.51	522.71	220.24	6,269.01	7,001.41	732.40	....
573.77	220.51	714.91	301.51	8,502.71	8,760.11	257.40	....
17.04	7.62	26.04	13.77	607.43	376.00	....	231.43
578.31	232.97	744.14	326.95	9,124.24	9,797.65	673.41	....
318.57	121.42	388.56	152.74	5,128.90	5,269.60	140.70	....
958.58	348.80	1,101.59	404.59	13,959.15	14,328.51	369.36	....
420.14	116.16	393.30	93.93	4,787.24	4,976.09	188.85	....
393.09	118.63	412.86	130.71	5,318.03	5,223.14	....	94.89
317.29	108.41	338.95	109.68	4,474.42	4,380.16	....	94.26
3,273.06	1,298.71	4,512.63	2,137.46	54,628.81	61,248.93	6,620.12	....
14,730.11	o,201.70	20,823.98	10,162.36	239,573.69	249,164.06	9,590.37	....
885.41	372.11	1,246.26	605.56	15,890.47	14,847.94	....	1,042.53
181.40	77.15	249.79	118.27	3,650.63	3,622.22	....	28.41
435.41	121.64	395.88	84.24	4,711.49	5,381.02	669.53	....
557.49	161.92	539.42	141.40	6,689.30	6,678.93	....	10.37
307.94	122.54	381.69	160.45	4,607.18	5,172.41	565.23	....
175.39	54.80	187.02	61.78	2,463.71	2,411.20	....	52.51
544.31	217.78	713.59	324.20	8,505.55	8,537.80	32.25	....
67.40	23.47	75.84	27.53	1,484.28	1,499.50	15.22	....
299.27	90.24	307.49	95.26	3,852.41	4,403.63	551.22	....
7,421.57	3,062.07	9,918.52	4,444.07	115,192.19	121,279.84	6,087.65	....
278.75	127.02	467.34	274.97	5,935.36	6,241.83	306.47	....
313.23	84.75	289.30	66.29	3,694.86	3,373.51	....	321.35
1,163.80	385.31	1,317.93	478.37	15,681.73	16,028.04	346.31	....
465.13	143.49	471.21	136.55	6,075.25	5,578.83	....	496.42
203.38	68.79	223.39	74.66	2,714.80	2,994.48	279.68	....
257.53	65.20	229.73	45.70	2,675.32	3,010.62	335.30	....
279.51	81.40	272.16	73.23	3,267.15	3,325.37	58.22	....
72.84	28.19	92.25	39.64	1,320.72	1,296.90	....	23.82
178.86	66.14	210.75	82.15	2,680.05	2,836.33	156.28	....
460.44	123.12	427.70	99.77	5,533.79	4,981.12	....	552.67
921.63	308.00	991.41	325.07	12,502.89	13,285.19	782.30	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Drumbo	......	45.00	18,732.97	61.6	291.63	867.68	864.42
Dublin	50.00	58.00	18,220.19	43.8	207.36	850.28	830.04
Dundas	......	25.00	312,298.15	1,489.3	7,050.77	7,298.45	14,713.18
Dunnville	......	35.00	183,755.28	715.5	3,387.38	6,066.87	8,635.54
Dutton	......	38.00	52,614.15	205.9	974.79	2,520.68	2,460.06
East Windsor	32.00	31.00	762,505.98	3,071.1	14,539.46	22,709.55	35,838.82
Elmira	......	31.00	199,623.46	742.7	3,516.15	5,862.61	9,259.76
Elora	......	35.00	113,710.51	410.4	1,942.95	3,763.41	5,290.23
Embro	55.00	52.00	28,261.32	84.0	397.68	1,164.48	1,250.12
Erieau	......	56.00	27,499.83	66.3	313.88	1,367.03	1,261.87
Erie Beach	......	70.00	6,945.10	15.2	71.96	397.75	317.13
Essex	......	35.00	101,257.16	375.3	1,776.78	3,191.52	4,676.96
Etobicoke twp.	......	29.00	588,832.95	2,656.9	12,578.52	15,650.80	28,050.28
Exeter	......	38.00	118,422.52	410.5	1,943.42	4,225.00	5,484.91
Fergus	......	35.00	191,890.91	671.9	3,180.97	6,011.16	8,925.16
Fonthill	35.00	34.00	26,916.80	119.6	566.22	1,428.51	1,287.39
Forest	......	48.00	103,621.90	299.7	1,418.87	4,476.29	4,770.09
Galt	27.00	26.00	1,338,799.77	6,219.7	29,445.83	33,541.51	63,379.86
Georgetown	......	35.00	287,650.66	978.3	4,631.55	8,440.48	13,344.12
Glencoe	......	58.00	71,598.28	163.8	775.48	3,239.31	3,269.18
Goderich	......	42.00	330,705.25	1,001.2	4,739.97	11,535.10	15,233.54
Granton	......	48.00	21,754.12	60.1	284.53	1,045.83	990.06
Guelph	......	27.00	1,656,809.32	7,610.0	36,027.91	41,787.88	78,578.78
Hagersville	......	31.00	223,340.31	896.3	4,243.34	5,885.37	10,439.66
Hamilton	......	23.50	12,037,077.51	59,480.0	281,595.29	245,236.70	574,497.83
Harriston	......	42.00	98,845.35	307.8	1,457.21	5,152.92	4,567.16
Harrow	40.00	38.00	98,045.13	342.3	1,620.55	4,021.13	4,600.41
Hensall	......	50.00	56,591.77	144.9	686.00	2,081.50	2,567.78
Hespeler	......	29.00	350,556.09	1,582.4	7,491.53	9,300.90	16,674.91
Highgate	......	44.00	24,747.71	73.5	347.97	1,179.40	1,132.28
Humberstone	......	28.00	71,469.94	323.6	1,532.01	2,158.46	3,410.41
Ingersoll	......	28.00	475,660.94	2,055.6	9,731.80	12,846.14	21,402.12
Jarvis	......	38.00	53,649.08	174.9	828.03	1,533.48	2,489.90
Kingsville	40.00	38.00	127,301.36	439.3	2,079.77	4,769.90	5,843.56
Kitchener	......	27.00	3,366,309.77	15,729.6	74,468.41	75,194.16	159,954.72
Lambeth	......	42.00	27,960.02	98.6	466.80	1,256.46	1,311.84
La Salle	38.00	36.00	65,012.02	240.5	1,138.60	2,125.22	3,056.43
Leamington	38.00	37.00	292,436.65	1,015.3	4,806.72	11,453.07	13,719.63
Listowel	......	36.00	227,390.14	832.0	3,938.93	9,049.88	10,625.01
London	......	26.00	5,831,689.56	27,645.3	130,880.74	132,348.59	275,667.54

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
177.10	60.08	194.31	67.83	2,523.05	2,769.73	246.68	....
199.31	65.07	190.43	48.23	2,390.72	2,476.07	85.35	....
2,194.76	935.48	3,217.65	1,640.04	37,050.33	37,911.30	860.97	....
1,611.94	487.71	1,910.19	787.92	22,887.55	25,043.34	2,155.79	....
442.71	168.64	545.91	226.74	7,339.53	7,824.80	485.27	....
6,049.44	2,467.08	7,898.55	3,381.95	92,884.85	95,764.68	2,879.83	....
1,742.61	641.81	2,070.02	817.87	23,910.83	23,024.68	....	886.15
1,020.29	365.19	1,181.75	451.94	14,015.76	14,364.70	348.94	....
267.83	85.85	283.70	92.50	3,542.16	4,413.33	871.17	....
298.63	85.02	286.99	73.01	3,686.43	3,713.68	27.25	....
78.07	21.44	72.55	16.74	975.64	1,062.21	86.57	....
840.29	326.76	1,036.15	413.29	12,261.75	13,134.61	872.86	....
4,330.45	1,828.17	6,104.48	2,925.82	71,468.52	77,049.08	5,580.56	....
1,081.79	362.43	1,228.20	452.05	14,777.80	15,599.58	821.78	....
1,744.96	620.97	1,987.08	739.91	23,210.21	23,516.47	306.26	....
212.45	73.79	279.30	131.71	3,979.37	4,091.25	111.88	....
1,032.93	337.86	1,078.59	330.03	13,444.66	14,384.40	939.74	....
9,676.45	4,129.00	13,865.36	6,849.24	160,887.25	170,231.98	9,344.73	....
2,681.59	910.70	2,992.13	1,077.32	34,077.89	34,240.99	163.10	....
795.08	226.33	749.25	180.38	9,235.01	9,502.79	267.78	....
3,274.54	984.21	3,453.31	1,102.54	40,323.21	40,822.59	499.38	....
224.08	64.48	225.94	66.18	2,901.10	2,886.78	....	14.32
12,194.79	5,244.83	17,192.57	8,380.26	199,407.02	205,469.30	6,062.28	....
1,857.21	703.56	2,312.98	987.02	26,429.14	27,784.05	1,354.91	....
81,159.45	36,261.43	123,947.57	65,500.41	1,408,198.68	1,394,027.92	....	14,170.76
963.25	317.32	1,031.15	338.95	13,827.96	12,926.02	....	901.94
874.68	320.95	1,021.05	376.95	12,835.72	13,118.64	282.92	....
596.91	165.47	584.49	159.57	6,841.72	7,244.11	402.39	....
2,608.93	1,079.80	3,630.84	1,742.57	42,529.48	48,411.62	5,882.14	....
244.97	79.12	257.73	80.94	3,322.41	3,233.25	....	89.16
546.55	231.04	740.65	356.35	8,975.47	9,060.99	85.52	....
3,347.42	1,376.08	4,691.24	2,263.66	55,658.46	57,555.97	1,897.51	....
513.39	162.46	557.33	192.60	6,277.19	6,647.96	370.77	....
1,113.29	414.62	1,303.90	483.76	16,008.80	16,857.89	849.09	....
24,149.53	10,493.59	34,885.00	17,321.71	396,467.12	424,698.41	28,231.29	....
257.41	87.62	293.29	108.58	3,782.00	4,139.10	357.10	....
553.65	212.84	674.65	264.84	8,026.23	8,731.90	705.67	....
2,628.03	939.04	3,052.17	1,118.07	37,716.73	37,738.83	22.10	....
2,001.75	738.60	2,364.68	916.21	29,635.06	29,952.90	317.84	....
40,549.37	17,813.84	60,035.43	30,443.48	687,738.99	718,778.06	31,039.07	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
London Ry. Com	15.00	kw. hr.	331,163.46	1,272.7	6,025.32	11,673.12	15,384.83
London twp....	35.00	34.00	69,292.31	278.4	1,318.03	2,303.46	3,263.92
Long Branch...	......	29.00	120,554.20	522.8	2,475.08	3,171.16	5,787.26
Lucan.........	......	37.00	43,288.34	165.6	784.00	1,736.69	2,000.22
Lynden........	......	40.00	23,825.55	81.8	387.26	973.70	1,095.75
Markham......	45.00	43.00	66,084.16	224.9	1,064.74	3,187.00	2,983.48
Merlin.........	47.00	45.00	43,508.03	125.3	593.21	1,790.00	2,001.08
Merritton......	......	22.00	446,225.54	2,543.9	12,043.55	11,364.39	21,847.27
Milton.........	......	31.00	193,208.47	766.8	3,630.25	7,905.81	8,946.26
Milverton......	33.00	34.00	91,952.47	340.1	1,610.13	2,956.47	4,246.06
Mimico........	......	26.00	389,536.92	1,886.6	8,931.70	9,446.52	18,612.08
Mitchell.......	33.00	32.00	113,545.62	454.9	2,153.63	3,758.72	5,324.68
Moorefield.....	......	60.00	20,845.86	44.8	212.10	1,247.76	945.47
Mount Brydges.	......	45.00	23,663.13	86.3	408.57	1,073.41	1,103.80
Newbury......	......	52.00	15,798.72	40.1	189.84	738.11	724.90
New Hamburg.	......	33.00	117,738.33	437.6	2,071.72	3,988.00	5,487.58
New Toronto...	......	29.00	1,166,036.27	5,072.8	24,016.08	32,838.39	54,793.17
Niagara Falls...	......	19.00	1,421,197.95	8,895.9	42,115.72	31,073.85	69,324.61
Niagara on Lake	28.00	27.00	83,817.84	452.8	2,143.68	3,451.09	4,049.10
Norwich.......	......	34.00	83,303.15	318.5	1,507.87	3,258.86	3,714.69
Oil Springs.....	......	42.00	56,947.12	166.8	789.68	2,438.32	2,598.27
Otterville......	......	43.00	24,277.65	79.6	376.85	1,070.97	1,084.96
Palmerston.....	......	38.00	137,416.00	477.8	2,262.04	6,610.52	6,398.79
Paris..........	......	28.00	266,735.42	1,225.6	5,802.34	7,440.85	12,602.62
Parkhill.......	......	62.00	63,855.44	137.6	651.44	2,680.86	2,904.88
Petrolia.......	......	40.00	263,523.45	860.0	4,071.49	10,059.64	12,138.43
Plattsville.....	60.00	62.00	22,252.47	53.9	255.18	987.97	1,006.37
Point Edward..	......	40.00	145,954.81	559.3	2,647.89	6,606.18	6,836.29
Port Colborne..	......	28.00	311,322.67	1,409.6	6,673.45	9,616.42	14,820.04
Port Credit....	......	32.00	120,148.40	499.9	2,366.67	4,529.72	5,679.51
Port Dalhousie.	30.00	28.00	106,887.89	485.8	2,299.92	3,708.59	5,095.52
Port Dover....	42.00	40.00	88,261.12	293.0	1,387.15	3,577.33	4,114.72
Port Rowan....	......	80.00	35,778.99	70.0	331.40	1,369.33	1,629.73
Port Stanley...	......	40.00	99,994.66	333.9	1,580.78	3,940.52	4,618.18
Preston.......	......	27.00	694,592.02	3,284.3	15,548.81	17,428.13	32,972.76
Princeton......	......	55.00	37,751.89	109.1	516.51	1,684.84	1,742.09
Queenston.....	......	29.00	17,589.57	87.0	411.88	644.35	840.56
Richmond Hill..	......	38.00	70,277.51	264.2	1,250.80	2,599.85	3,290.27
Ridgetown.....	......	38.00	112,430.90	394.6	1,868.15	4,722.43	5,218.70
Riverside......	......	33.00	317,502.33	1,176.2	5,568.47	8,819.84	14,863.45

SYSTEM

N.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ .c	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,825.67	1,139.72	3,437.00	1,401.52	41,887.18	36,369.73	....	5,517.45
565.62	216.40	714.99	306.58	8,689.00	9,526.82	837.82	....
922.79	376.81	1,250.81	575.72	14,559.63	15,161.19	601.56	....
367.65	136.03	447.20	182.37	5,654.16	6,125.93	471.77	....
224.60	73.62	249.77	90.08	3,094.78	3,273.85	179.07	....
490.95	182.75	632.97	247.66	8,789.55	9,743.13	953.58	....
437.39	142.89	453.24	137.98	5,555.79	5,686.39	130.60	....
2,571.05	1,202.46	4,610.63	2,801.39	56,440.74	55,966.23	....	474.51
1,612.73	568.52	2,007.15	844.41	25,515.13	23,769.91	....	1,745.22
803.28	303.81	956.10	374.52	11,250.37	11,503.97	253.60	....
2,647.51	1,149.76	4,034.58	2,077.56	46,899.71	49,052.41	2,152.70	....
934.70	355.85	1,180.75	500.94	14,209.27	14,631.96	422.69	....
236.81	62.21	217.90	49.33	2,971.58	2,688.98	....	282.60
209.12	74.57	245.34	95.04	3,209.85	3,882.72	672.87	....
168.73	53.05	165.23	44.16	2,084.02	2,087.32	3.30	....
1,038.89	375.67	1,228.17	481.89	14,671.92	14,442.13	....	229.79
8,790.47	3,653.37	12,021.95	5,586.26	141,699.69	147,110.63	5,410.94	....
7,015.40	3,654.78	14,602.89	9,796.32	177,583.57	169,021.92	....	8,561.65
533.20	216.32	866.92	498.63	11,758.94	12,290.29	531.35	....
662.26	248.18	827.68	350.74	10,570.28	10,827.26	256.98	....
564.57	195.82	593.05	183.68	7,363.39	7,004.90	....	358.49
217.39	72.37	243.27	87.66	3,153.47	3,421.32	267.85	....
1,252.03	441.42	1,429.92	526.16	18,920.88	18,157.60	....	763.28
1,952.38	825.41	2,762.87	1,349.65	32,736.12	34,401.96	1,665.84	....
728.47	188.22	668.52	151.53	7,973.92	8,532.19	558.27	....
2,455.16	882.11	2,737.82	947.04	33,291.69	35,344.05	2,052.36	....
242.89	69.00	231.74	59.36	2,852.51	3,324.46	471.95	....
1,218.11	481.41	1,514.76	615.91	19,920.55	22,372.30	2,451.75	....
2,380.77	1,006.41	3,226.29	1,552.27	39,275.65	39,469.93	194.28	....
964.23	388.44	1,247.34	550.50	15,726.41	15,996.49	270.08	....
815.98	309.01	1,108.62	534.97	13,872.61	13,734.67	....	137.94
835.85	276.42	919.62	322.66	11,433.75	11,820.14	386.39	....
420.03	107.58	374.38	77.09	4,309.54	5,601.96	1,292.42	....
938.01	316.55	1,039.78	367.70	12,801.52	13,357.64	556.12	....
4,930.12	2,150.40	7,195.57	3,616.73	83,842.52	88,766.85	4,924.33	....
382.29	119.73	392.30	120.14	4,957.90	5,998.17	1,040.27	....
124.73	49.74	182.20	95.81	2,349.27	2,523.45	174.18	....
550.92	212.10	725.46	290.94	8,920.34	10,040.20	1,119.86	....
1,008.67	369.75	1,168.49	434.54	14,790.73	14,994.12	203.39	....
2,692.73	1,046.15	3,288.92	1,295.25	37,574.81	38,815.68	1,240.87	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Rockwood	......	45.00	33,292.59	102.1	483.37	1,062.87	1,533.49
Rodney	......	45.00	48,479.86	129.2	611.67	2,250.32	1,844.03
St. Catharines	......	21.50	1,461,140.06	8,292.0	39,256.69	36,784.87	70,896.75
St. Clair Beach	......	38.00	23,306.87	78.7	372.59	741.51	1,082.38
St. George	......	40.00	39,815.66	136.0	643.86	1,714.97	1,848.74
St. Jacobs	33.00	32.00	48,490.42	195.0	923.19	1,614.69	2,284.33
St. Mary's	......	34.00	331,121.89	1,343.0	6,358.15	11,772.19	15,510.10
St. Thomas	......	28.00	1,149,826.29	5,362.4	25,387.13	32,664.82	54,444.39
Sandwich	......	30.00	870,836.08	3,348.6	15,853.23	23,600.67	40,872.65
Sarnia	......	34.00	1,771,325.59	6,672.7	31,590.47	47,031.96	82,752.49
Scarboro twp	34.00	32.00	650,980.07	2,575.0	12,190.78	15,769.85	30,635.34
Seaforth	35.00	34.00	125,657.18	467.2	2,211.86	4,250.35	5,812.58
Simcoe	......	31.00	324,964.26	1,403.6	6,645.04	9,987.65	15,436.64
Springfield	......	46.00	29,225.55	77.0	364.54	1,158.14	1,333.67
Stamford twp	......	21.00	271,797.28	1,711.1	8,100.84	6,851.26	13,376.93
Stouffville	......	47.00	56,675.84	162.0	766.95	2,319.27	2,545.57
Stratford	......	30.00	1,654,430.33	7,361.0	34,849.07	43,152.69	78,277.59
Strathroy	......	34.00	230,262.53	915.0	4,331.87	7,358.17	10,773.48
Sutton	55.00	60.00	66,789.97	157.7	746.59	3,876.66	2,730.57
Tavistock	......	34.00	122,519.93	464.9	2,200.97	4,342.12	5,737.55
Tecumseh	.....	35.00	117,096.91	410.6	1,943.90	3,807.28	5,470.75
Thamesford	......	40.00	45,072.62	152.5	721.98	1,770.59	2,078.16
Thamesville	......	40.00	49,517.47	176.2	834.18	2,153.97	2,303.03
Thedford	......	68.00	29,679.90	59.5	281.69	1,697.35	1,342.46
Thorndale	......	62.00	20,515.49	44.6	211.15	1,328.45	920.60
Thorold	......	24.00	360,959.19	1,914.5	9,063.79	10,772.20	17,621.64
Tilbury	......	38.00	125,776.27	443.1	2,097.76	5,218.37	5,841.92
Tillsonburg	......	33.00	212,121.98	803.8	3,805.42	7,266.96	9,487.43
Toronto	......	26.10	54,790,933.48	251,822.4	1,192,199.09	1,069,575.34	2,597,442.49
Toronto twp	......	32.00	334,062.47	1,391.4	6,587.28	11,669.03	15,824.21
Walkerville	......	28.00	1,927,557.24	8,242.6	39,022.82	42,925.76	90,900.88
Wallaceburg	......	35.00	464,616.11	1,587.5	7,515.68	14,990.16	21,492.53
Wardsville	......	65.00	13,911.17	32.0	151.50	617.48	636.43
Waterdown	......	31.00	58,945.20	237.0	1,122.03	2,347.11	2,704.25
Waterford	......	32.00	92,970.23	383.7	1,816.55	2,832.81	4,381.06
Waterloo	......	27.00	626,786.34	2,877.2	13,621.49	14,818.80	29,684.75
Watford	......	55.00	71,432.44	180.6	855.01	3,016.15	3,265.26
Welland	......	23.00	652,495.44	3,606.9	17,076.09	15,964.18	31,494.37
Wellesley	......	45.00	39,222.37	111.3	526.93	1,470.55	1,790.73
West Lorne	......	38.00	61,114.49	221.5	1,048.64	2,942.41	2,818.65

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
328.66	110.27	346.53	112.43	3,977.62	4,594.47	616.85	....
379.58	123.64	414.01	142.28	5,765.53	5,812.48	46.95	....
8,478.18	3,917.94	15,097.22	9,131.29	183,562.94	178,278.59	....	5,284.35
211.10	75.68	241.78	86.67	2,811.71	2,991.19	179.48	....
370.17	126.67	414.35	149.77	5,268.53	5,439.63	171.10	....
400.76	156.48	503.64	214.74	6,097.83	6,278.97	181.14	....
2,636.51	1,087.61	3,438.35	1,478.93	42,281.84	45,661.11	3,379.27	....
8,223.20	3,574.64	11,896.33	5,905.17	142,095.68	150,146.87	8,051.19	....
7,185.56	2,812.02	9,026.08	3,687.54	103,037.75	100,459.00	....	2,578.75
14,966.65	5,797.34	18,376.45	7,348.09	207,863.45	226,870.85	19,007.40	....
4,890.14	1,957.11	6,734.04	2,835.63	75,012.89	83,337.42	8,324.53	....
1,095.59	387.80	1,307.87	514.49	15,580.54	15,963.82	383.28	....
2,534.45	994.81	3,373.69	1,545.67	40,517.95	43,510.36	2,992.41	....
308.03	88.12	304.16	84.79	3,641.45	3,540.44	....	101.01
1,340.76	698.74	2,802.76	1,884.29	35,055.58	35,933.77	878.19	....
521.37	160.86	573.69	178.40	7,066.11	7,615.52	549.41	....
12,343.45	5,258.76	17,153.69	8,106.06	199,141.31	220,828.90	21,687.59	....
1,911.14	685.90	2,386.51	1,007.61	28,454.68	31,109.68	2,655.00	....
592.49	174.61	618.10	173.66	8,912.68	9,365.37	452.69	....
1,052.94	400.29	1,275.29	511.96	15,521.12	15,807.98	286.86	....
1,033.90	383.07	1,214.05	452.16	14,305.11	14,370.94	65.83	....
417.23	141.15	467.05	167.94	5,764.10	6,101.31	337.21	....
440.11	163.62	514.54	194.03	6,603.48	7,047.29	443.81	....
341.69	91.45	310.05	65.52	4,130.21	4,043.12	....	87.09
232.04	61.22	213.82	49.11	3,016.39	2,763.10	....	253.29
2,348.30	1,045.42	3,760.07	2,108.28	46,719.70	45,948.36	....	771.34
1,124.88	417.32	1,306.66	487.95	16,494.86	16,838.20	343.34	....
1,699.69	604.27	2,108.72	885.16	25,857.65	26,525.04	667.39	....
346,364.11	154,599.81	565,985.07	277,311.30	6,203,477.21	6,572,564.17	369,086.96	....
2,668.43	1,067.98	3,468.09	1,532.23	42,817.25	44,523.97	1,706.72	....
14,467.51	6,043.21	19,957.49	9,076.89	222,394.56	230,793.15	8,398.59	....
4,242.84	1,502.50	4,830.71	1,748.18	56,322.60	55,564.12	....	758.48
154.19	44.85	145.58	35.24	1,785.27	2,081.58	296.31	....
473.01	180.10	598.91	260.99	7,686.40	7,347.54	....	338.86
754.26	301.25	965.38	422.54	11,473.85	12,279.69	805.84	....
4,582.84	1,948.73	6,497.22	3,168.42	74,322.25	77,683.69	3,361.44	....
757.87	231.08	745.04	198.88	9,069.29	9,932.50	863.21	....
4,018.46	1,767.92	6,746.01	3,971.98	81,039.01	82,957.99	1,918.98	....
402.54	118.44	409.47	122.57	4,841.23	5,009.97	168.74	....
543.95	193.94	634.80	243.92	8,426.31	8,416.73	....	9.58

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c
Weston	......	28.00	579,102.64	2,736.3	12,954.42	14,588.95	27,521.79
Wheatley	.....	51.00	56,756.16	137.7	651.91	2,375.96	2,412.97
Windsor	......	28.00	5,524,672.28	23,656.2	111,995.20	116,687.09	260,534.41
Woodbridge	36.00	35.00	82,480.76	310.6	1,470.47	3,427.54	3,851.76
Woodstock	......	27.00	1,034,825.60	4,713.4	22,314.58	25,338.39	46,735.75
Wyoming	......	54.00	23,280.06	56.9	269.38	1,012.49	1,059.37
York East twp.	33.00	32.00	1,046,148.74	4,790.2	22,678.17	46,632.77	50,045.99
York North twp.	......	32.00	508,654.39	1,977.1	9,360.16	15,259.12	23,130.04
Zurich	......	62.00	42,084.22	89.1	421.82	1,719.92	1,901.66
North York Radial Railways			117,582.21	509.5	2,412.12	3,044.96	5,773.69
Toronto Transportation Comm.			124,145.84	550.7	2,607.17	3,877.87	5,970.99
Sandwich, Windsor and Amherstburg Railway Company			765,143.51	3,205.5	15,175.75	17,594.96	36,225.98
Windsor, Essex and Lake Shore Railway Association			265,254.06	884.1	4,185.58	9,561.63	12,477.45
RURAL POWER DISTRICTS							
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps.			2,262.34	8.4	39.77	70.45	107.04
Ailsa Craig R.P.D.—McGillivray, Williams E. and Lobo twps			546.48	1.8	8.52	18.71	25.70
Alvinston R.P.D. — Brooke twp			1,954.52	2.7	12.78	69.56	88.31
Amherstburg R.P.D. — Anderdon, Malden, Colchester N., and Colchester S. twps.			150,253.26	514.9	2,437.68	5,578.72	6,808.95
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N., and Dereham twps			67,278.09	239.4	1,133.39	2,265.54	3,137.26
Ayr R.P.D. — Dumfries N., Dumfries S. and Blenheim twps			7,107.32	29.8	141.09	255.92	337.32
Baden R.P.D. — Blandford, Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo and Blenheim twps			63,995.70	252.5	1,195.40	1,976.11	3,021.72
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsborough, Clinton, Pelham, Louth and Wainfleet twps			205,414.86	805.4	5,591.66	7,545.38	9,679.72
Belle River R.P.D.—Maidstone and Rochester twps.			68,565.96	257.6	1,219.55	2,453.31	3,210.23
Blenheim R.P.D. — Raleigh and Harwich twps			32,306.74	112.0	530.24	1,035.41	1,507.66

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,051.80	1,699.18	6,000.44	3,013.26	69,829.84	76,615.02	6,785.18	....
545.72	160.73	546.84	151.64	6,845.77	6,612.76	....	233.01
41,448.84	17,324.17	57,226.70	26,050.62	631,267.03	665,873.08	34,606.05	....
709.80	266.27	856.52	342.04	10,924.40	10,913.92	....	10.48
6,831.30	3,009.79	10,164.18	5,190.48	119,584.47	127,260.87	7,676.40	....
250.40	74.02	242.89	62.66	2,971.21	3,072.15	100.94	....
6,675.48	2,962.77	10,827.26	5,275.05	145,097.49	154,164.11	9,066.62	....
3,624.31	1,479.45	5,056.08	2,177.22	60,086.38	63,267.42	3,181.04	....
480.51	128.08	439.07	98.12	5,189.18	5,524.16	334.98	....
851.52	354.94	1,250.97	561.07	14,249.27	16,811.83	2,562.56	....
939.04	371.62	1,287.64	606.44	15,660.77	17,502.51	1,841.74	....
5,862.73	2,408.71	7,927.29	3,529.95	88,725.37	88,725.37	....	....
2,436.37	801.22	2,761.63	973.59	33,197.47	33,197.47	....	....
19.96	7.41	23.54	9.25	277.42	277.42	see page	185
5.18	1.70	5.68	1.98	67.47	67.47	"	"
24.62	5.87	20.47	2.97	224.58	224.58	"	"
1,288.79	474.33	1,517.02	567.02	18,672.51	18,672.51	"	"
603.84	212.83	697.28	263.63	8,313.77	8,313.77	"	"
56.85	22.40	73.76	32.81	920.15	920.15	"	"
538.44	206.18	665.83	278.06	7,881.74	7,881.74	"	"
1,775.81	596.82	2,134.97	886.92	28,211.28	28,211.28	"	"
576.95	223.03	711.36	283.67	8,678.10	8,678.10	"	"
292.22	106.34	335.81	123.34	3,931.02	3,931.02	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps	206,852.90	662.2	3,135.05	5,622.25	8,280.19
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps	35,664.16	103.2	488.58	1,367.96	1,652.21
Brampton R.P.D.—Chinguacousy and Toronto twps	26,082.70	113.6	537.81	1,254.28	1,241.73
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps	91,587.59	405.6	1,920.23	3,798.13	4,361.99
Brigden R.P.D.—Moore and Sombra twps	16,525.78	33.8	160.02	621.00	752.00
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps	34,111.29	131.9	624.45	1,040.19	1,576.39
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Onondaga, Binbrook Caistor, Grimsby S. and Barton twps	54,443.96	228.8	1,083.20	1,797.73	2,580.45
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps	91,112.15	378.8	1,793.35	2,522.44	4,301.62
Chippawa R.P.D.—Willoughby, Bertie and Crowland twps	18,184.39	97.7	462.54	523.74	868.52
Clinton R.P.D.—Goderich, Stanley Tuckersmith, Hullett and Hay twps	33,504.81	104.5	494.73	1,361.36	1,566.66
Delaware R.P.D. — Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps	64,784.37	261.7	1,238.96	1,994.87	3,045.96
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps	81,702.77	300.8	1,424.07	2,622.60	3,791.32
Dresden R.P.D.—Camden, Chatham Gore and Dawn twps	8,569.92	26.6	125.93	311.69	400.44
Drumbo R.P.D.—Blenheim, Burford and Blandford twps	24,084.52	66.2	313.41	1,014.70	1,100.08
Dundas R.P.D.—Flamboro W., Beverly, Glanford, Ancaster, Flamboro E. and Nelson twps	95,494.23	437.6	2,368.96	2,295.75	4,530.48
Dunnville R.P.D.—Moulton and Dunn twps	5,386.68	21.6	102.26	161.80	256.34
Dutton R.P.D.—Dunwich and Aldboro twps	30,014.60	109.2	516.99	1,351.36	1,395.19
Elmira R.P.D.—Woolwich, Peel and Pilkington twps	10,801.50	39.1	185.11	288.37	507.03
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps	29,183.95	103.4	489.52	886.68	1,366.55
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S. and Mersea twps	55,909.03	207.1	980.47	1,623.87	2,587.16

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,394.77	530.01	1,828.07	729.22	21,519.56	21,519.56	see page	185
359.32	117.28	372.63	113.64	4,471.62	4,471.62	“	“
200.81	79.08	270.61	125.10	3,709.42	3,709.42	“	“
696.59	291.28	949.77	446.66	12,464.65	12,464.65	“	“
189.22	53.14	172.67	37.22	1,985.27	1,985.27	“	“
278.77	110.92	345.54	145.25	4,121.51	4,121.51	“	“
435.35	171.11	563.24	251.96	6,883.04	6,883.04	“	“
716.04	293.89	944.63	417.14	10,989.11	10,989.11	“	“
116.54	52.18	188.10	107.59	2,319.21	2,319.21	“	“
326.87	108.33	349.96	115.08	4,322.99	4,322.99	“	“
530.44	205.05	671.22	288.19	7,974.69	7,974.69	“	“
714.96	260.28	845.40	331.25	9,989.88	9,989.88	“	“
82.79	27.72	89.16	29.29	1,067.02	1,067.02	“	“
249.27	74.30	250.20	72.90	3,074.86	3,074.86	see page	187
701.40	300.51	985.12	481.90	11,664.12	11,664.12	“	“
46.15	14.77	55.95	23.78	661.05	661.05	“	“
260.14	94.09	307.33	120.25	4,045.35	4,045.35	“	“
96.10	35.26	112.05	43.06	1,266.98	1,266.98	“	“
264.98	93.37	303.36	113.86	3,518.32	3,518.32	“	“
464.37	180.44	572.25	228.06	6,636.62	6,636.62	“	“

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Exeter R.P.D.—Hay, Stephen, Osborne, Tuckersmith, Biddulph and Bosanquet twps	77,516.62	232.2	1,099.31	2,653.96	3,581.20
Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps	9,793.45	25.4	120.25	400.08	452.18
Galt R.P.D.—Dumfries N., Dumfries S. and Beverly twps	33,537.32	151.8	718.66	1,757.50	1,598.84
Georgetown R.P.D.—Esquesing and Chinguacousy twps	32,380.54	111.1	525.98	942.30	1,518.31
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps	22,180.28	64.0	303.00	814.07	1,028.84
Grantham R.P.D.—Grantham and Niagara twps	95,034.32	486.1	3,324.87	2,818.64	4,566.76
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps	83,882.19	327.2	1,549.06	2,648.51	3,785.14
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N. and Oneida twps.	56,785.63	193.9	917.98	1,807.16	2,663.59
Harriston R.P.D.—Minto and Howick twps	4,233.83	12.1	57.28	205.57	197.53
Harrow R.P.D.—Colchester S., Malden, Colchester N. and Gosfield S. twps	109,313.30	363.9	1,722.81	4,060.91	4,973.53
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps	86,849.89	313.8	1,485.61	2,865.09	3,961.62
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps	44,474.09	224.0	1,060.48	1,188.25	2,143.81
Keswick R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps	113,296.44	314.1	1,487.03	5,688.21	4,657.12
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps	150,246.77	512.6	2,426.79	5,253.89	6,923.71
Listowel R.P.D.—Wallace, Elma and Grey twps	27,713.17	101.4	480.06	1,039.50	1,303.34
London R.P.D.—Westminster, Delaware, London, Nissouri W. and Lobo twps	324,122.85	1,382.5	6,545.15	8,760.14	15,289.27
Lucan R.P.D.—Stephen, London, McGillivray and Biddulph twps	15,584.81	59.7	282.64	532 27	728.48
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps	40,895.87	145.5	688.84	1,426.05	1,919.81
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps	83,069.40	295.8	1,400.40	2,553.73	3,761.71
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps	50,798.86	143.9	681.26	1,901.03	2,357.45
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps	29,390.09	114.6	542.55	1,404.93	1,387.45
Milverton R.P.D.—Mornington, Wellesley, Ellice and Elma twps	14,167.34	52.4	248.08	427.23	667.37

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
769.87	239.95	805.62	255.70	9,405.61	9,405.61	see page	187
102.66	31.21	102.03	27.97	1,236.38	1,236.38	"	"
249.09	105.09	347.48	167.16	4,943.82	4,943.82	"	"
300.62	103.50	337.05	122.35	3,850.11	3,850.11	"	"
224.93	68.11	231.71	70.48	2,741.14	2,741.14	"	"
637.69	276.57	983.79	535.30	13,143.62	13,143.62	"	"
647.77	260.73	825.87	360.32	10,077.40	10,077.40	"	"
528.83	173.85	589.57	213.52	6,894.50	6,894.50	"	"
43.09	13.35	44.20	13.32	574.34	574.34	"	"
955.02	346.25	1,103.14	400.74	13,562.40	13,562.40	"	"
735.06	269.05	873.65	345.56	10,535.64	10,535.64	"	"
304.11	132.69	460.54	246.67	5,536.55	5,536.55	"	"
910.95	301.50	1,042.16	345.89	14,432.86	14,432.86	"	"
1,339.98	488.31	1,550.19	564.48	18,547.35	18,547.35	"	"
243.96	90.02	288.19	111.66	3,556.73	3,556.73	"	"
2,511.67	1,025.47	3,341.95	1,522.43	38,996.08	38,996.08	"	"
132.23	48.94	161.00	65.74	1,951.30	1,951.30	"	"
376.29	126.61	427.97	160.22	5,125.79	5,125.79	see page	189
645.73	240.35	832.50	325.74	9,760.16	9,760.16	"	"
514.81	166.18	529.29	158.47	6,308.49	6,308.49	"	"
248.75	87.55	305.39	126.20	4,102.82	4,102.82	"	"
123.77	46.80	147.31	57.70	1,718.26	1,718.26	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Mitchell R.P.D.—Hibbert, Fullarton, Downie, Ellice, Logan, McKillop and Elma twps	45,610.31	163.6	774.53	1,450.06	2,142.56
Newmarket R.P.D.—Georgina, Gwillimbury E., King, Whitchurch, Scott and Uxbridge twps	63,027.51	222.9	1,055.27	2,216.21	2,854.18
Niagara R.P.D.—Niagara and Stamford twps	95,307.44	541.3	2,562.66	2,669.00	4,633.81
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps	57,828.35	221.1	1,046.75	1,847.51	2,582.81
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps	13,883.55	39.7	187.95	580.98	639.96
Palmerston R.P.D.—Maryborough, Peel, Arthur, Wallace and Minto twps.	7,788.38	26.9	127.35	353.88	366.93
Petrolia R.P.D.—Sarnia, Plympton, Enniskillen and Moore twps	8,129.02	26.3	124.52	281.92	372.72
Preston R.P.D.—Waterloo, Guelph, Puslinch, Dumfries N. and Woolwich twps.	172,503.94	747.4	3,538.41	4,887.82	8,181.08
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps	90,967.95	274.8	1,300.99	3,779.97	4,213.71
St. Jacobs R.P.D.—Wellesley, Woolwich, Peel and Waterloo twps	53,923.02	214.8	1,016.93	1,562.01	2,540.56
St. Mary's R.P.D.—Fullarton, Usborne, Blanshard, Downie, Nissouri E. and Nissouri W. twps	57,287.31	196.3	929.34	2,007.68	2,686.25
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster and Dunwich twps	103,205.35	430.4	2,037.63	3,200.31	4,865.45
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps	172,894.69	658.8	6,605.55	5,255.98	8,072.13
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps	244,034.17	966.2	4,574.27	6,239.34	11,465.40
Sarnia R.P.D.—Sarnia, Moore and Plympton twps	144,305.59	485.3	2,297.55	5,549.14	6,462.25
Scarboro R.P.D.—Scarboro, Pickering and York N. twps	65,376.10	258.6	1,224.29	1,640.32	3,082.21
Seaforth R.P.D.—Tuckersmith, McKillop and Hibbert twps	13,095.62	46.3	219.20	496.64	615.56
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham, Townsend and Walpole twps	36,990.22	159.1	753.22	1,466.72	1,759.85
Stamford R.P.D.—Thorold twp	32,818.08	172.6	817.14	925.65	1,594.81
Stratford R.P.D.—Ellice, Downie, Easthope N. and Easthope S. twps	38,998.08	172.4	816.19	1,116.97	1,847.09
Strathroy R.P.D.—Lobo, Adelaide, Metcalfe, Ekfrid, Caradoc and Williams E. twps	25,199.89	81.8	387.27	1,097.35	1,178.18

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
407.74	155.07	474.90	180.16	5,585.02	5,585.02	see page	189
492.26	187.15	631.31	245.46	7,681.84	7,681.84	"	"
565.03	258.75	985.55	596.08	12,270.88	12,270.88	"	"
459.74	172.28	574.56	243.48	6,927.13	6,927.13	"	"
139.33	48.25	144.64	43.72	1,784.83	1,784.83	"	"
71.26	24.98	81.05	29.62	1,055.07	1,055.07	*	"
74.16	26.55	83.09	28.96	991.92	991.92	"	"
1,338.34	562.18	1,789.50	823.06	21,120.39	21,120.39	"	"
894.65	293.85	948.67	302.61	11,734.45	11,734.45	"	"
449.11	173.63	560.15	236.54	6,538.93	6,538.93	"	"
521.92	204.49	596.15	216.17	7,162.00	7,162.00	"	"
823.78	338.09	1,069.79	473.97	12,809.02	12,809.02	"	"
1,492.61	542.36	1,789.57	725.49	24,483.69	24,483.69	"	"
1,968.19	797.23	2,530.58	1,064.00	28,639.01	28,639.01	"	"
1,231.99	463.92	1,437.22	534.42	17,976.49	17,976.49	"	"
491.10	196.54	676.28	284.77	7,595.51	7,595.51	"	"
118.22	41.81	136.40	50.98	1,678.81	1,678.81	"	"
289.95	114.34	384.28	175.21	4,943.57	4,943.57	"	"
216.14	96.97	341.63	190.07	4,182.41	4,182.41	see page	191
292.84	124.42	404.38	189.85	4,791.74	4,791.74	"	"
240.06	84.41	261.93	90.08	3,339.28	3,339.28	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps...	101,515.63	376.0	1,780.09	3,693.47	4,783.04
Tavistock R.P.D.—Easthope N., Easthope S., Zorra E. and Ellice twps.....	37,271.25	141.5	669.90	1,414.91	1,755.04
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham Harwich twps....................	26,304.41	93.6	443.13	1,091.61	1,235.97
Tilbury R.P.D.—Dover, Tilbury E., Tilbury W., Tilbury N., Romney, Mersea and Rochester twps..........	25,563.37	84.7	401.00	938.10	1,190.98
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton, Walsingham and North Norwich N. twps.........	82,448.59	288.6	1,366.31	2,984.14	3,686.40
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.......	51,296.73	170.1	805.30	1,591.72	2,376.95
Walsingham R.P.D.—Walsingham N., Walsingham S., Houghton, Charlotteville, Windham and Middleton twps..	43,930.00	101.3	479.58	1,537.74	2,017.97
Walton R.P.D.—Wawanosh E., Wawanosh W., Morris, Grey, Hullett and McKillop twps................	24,143.99	61.4	290.69	990.82	1,110.97
Waterdown R.P.D.—Flamboro E. Flamboro W. and Nelson twps.......	120,807.91	469.9	4,831.64	3,976.97	5,555.81
Waterford R.P.D.—Windham and Townsend twps...................	33,327.81	137.4	650.50	987.12	1,580.15
Watford R.P.D.—Warwick, Adelaide and Metcalfe twps.................	5,101.64	13.8	65.33	197.17	236.52
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet, Humberstone, Willoughby and Moulton twps........................	221,164.85	1,074.5	5,086.99	8,994.76	10,672.11
Woodbridge R.P.D.—York North, Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King and Chinguacousy twps............................	140,500.90	517.1	2,448.09	5,202.29	6,627.25
Woodstock R.P.D.—Oxford, W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps........................	117,936.25	484.6	2,294.23	3,125.25	5,199.89
Totals—Municipalities...........	122,893,005.99	556,410.4	2,634,205.56	2,856,938.18	5,814,119.26
Totals—Rural power districts.....	5,693,441.53	21,807.0	112,433.60	190,230.43	263,739.83
Totals—Companies..............	47,392,534.34	259,897.6	1,232,884.84	1,105,455.39	2,325,150.24
	175,978,981.86				
Non-operating capital............	324,517.65				
Grand total....................	176,303,499.51	838,115.0	3,979,524.00	4,152,624.00	8,403,009.33

SYSTEM *N.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
892.43	342.62	1,055.55	414.05	12,961.25	12,961.25	see page	191
320.08	121.72	387.86	155.82	4,825.33	4,825.33	"	"
233.80	86.92	273.33	103.07	3,467.83	3,467.83	"	"
236.98	82.76	265.77	93.27	3,208.86	3,208.86	"	"
704.63	248.40	823.37	317.81	10,131.06	10,131.06	"	"
477.31	170.54	533.54	187.32	6,142.68	6,142.68	"	"
490.13	133.85	459.15	111.55	5,229.97	5,229.97	"	"
258.43	75.10	252.23	67.61	3,045.85	3,045.85	"	"
982.71	361.31	1,218.95	517.46	17,444.85	17,444.85	"	"
270.41	107.99	345.93	151.30	4,093.40	4,093.40	"	"
52.77	16.68	53.17	15.20	636.84	636.84	"	"
1,625.91	644.02	2,316.81	1,183.25	30,523.85	30,523.85	"	"
1,247.91	443.81	1,472.47	569.44	18,011.26	18,011.26	"	"
834.92	353.64	1,138.08	533.65	13,479.66	13,479.66	"	"
849,759.60	363,197.38	1,269,087.97	612,728.85	14,400,036.80	15,047,450.32	694,921.68	47,508.16
47,061.26	17,688.63	58,191.42	24,014.17	713,359.34	713,359.34		
285,485.15	132,534.66	489,950.94	(636,743.02)	4,934,718.20	4,934,718.20		
1,182,306.01	513,420.67	1,817,230.33	....	20,048,114.34	20,695,527.86	....	....

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain Districts or charged to the adjustment) of the actual costs in the

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps	14,289.65	7,144.83	7,144.82	277.42
Ailsa Craig R.P.D.—McGillivray, Williams E. and Lobo twps	8,773.84	4,386.92	4,386.92	67.47
Alvinston R.P.D.—Brooke twp	5,435.83	2,717.91	2,717.92	224.58
Amherstburg R.P.D.—Anderdon, Malden, Colchester N. and Colchester S. twps	119,327.78	59,578.39	59,749.39	18,672.51
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N. and Dereham twps	*167,753.37	82,239.41	85,513.96	8,313.77
Ayr R.P.D.—Dumfries N., Dumfries S. and Blenheim twps	*39,128.18	19,526.74	19,601.44	920.15
Baden R.P.D.—Blandford, Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo and Blenheim twps	*140,841.42	70,205.93	70,635.49	7,881.74
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsborough, Clinton, Pelham, and Wainfleet twps	322,476.40	155,838.77	166,637.63	28,211.28
Belle River R.P.D.—Maidstone and Rochester twps	86,381.18	43,114.42	43,266.76	8,678.10
Blenheim R.P.D.—Raleigh and Harwich twps.	*92,759.82	45,539.46	47,220.36	3,931.02
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps	290,819.36	145,409.68	145,409.68	21,519.56
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps	*51,798.35	25,525.64	26,272.71	4,471.62
Brampton R.P.D.—Chinguacousy and Toronto twps	77,108.51	38,554.26	38,554.25	3,709.42
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps	*198,684.68	98,049.88	100,634.80	12,464.65
Brigden R.P.D.—Moore and Sombra twps	49,714.50	24,857.25	24,857.25	1,985.27
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps	86,332.17	43,166.08	43,166.09	4,121.51
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Onondaga, Binbrook, Caistor, Grimsby S. and Barton twps	184,325.20	92,162.60	92,162.60	6,883.04
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps	227,021.81	113,510.90	113,510.91	10,989.11
Chippawa R.P.D.—Willoughby, Bertie and Crowland twps	38,544.24	19,272.12	19,272.12	2,319.21
Clinton R.P.D.—Goderich, Stanley, Tuckersmith, Hullett and Hay twps	116,303.05	57,212.75	59,090.30	4,322.99
Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfrid, Lobo and London twps	*208,353.57	103,243.15	105,110.42	7,974.69
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps	*193,271.63	95,539.90	97,731.73	9,989.88
Dresden R.P.D.—Camden, Chatham Gore and Dawn twps	36,226.09	18,113.05	18,113.04	1,067.02

Note.—Items marked * include portions of transmission lines of systems aggregating

RURAL POWER DISTRICTS *N.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, and Municipalities comprising certain other Districts upon ascertainment (by annual year ending October 31, 1931

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
352.86	272.12	247.25	123.62	65.09	1,338.36	1,096.96	....	241.40
70.75	51.12	46.45	23.23	12.23	271.25	361.95	90.70	....
102.28	119.65	108.72	54.36	28.62	638.21	420.34	....	217.87
5,246.14	2,440.61	2,214.15	1,107.07	583.78	30,264.26	34,751.61	4,487.35	....
6,770.18	3,713.44	3,309.96	1,654.98	888.22	24,650.55	27,069.77	2,419.22	....
773.38	828.59	751.37	375.69	198.20	3,847.38	3,831.18	....	16.20
3,632.53	2,992.54	2,710.47	1,355.24	715.79	19,288.31	19,308.69	20.38	....
17,019.88	6,380.92	5,702.01	2,851.00	1,526.27	61,691.36	68,560.67	6,869.31	....
4,224.21	1,872.63	1,698.70	849.35	447.92	17,770.91	22,211.54	4,440.63	....
3,492.08	2,009.68	1,792.40	896.21	480.70	12,602.09	16,188.36	3,586.27	....
13,734.89	5,826.27	5,272.87	2,636.44	1,393.60	50,383.63	57,793.25	7,409.62	....
3,071.48	1,113.74	997.01	498.50	266.40	10,418.75	10,155.22	....	263.53
1,403.71	1,628.39	1,479.58	739.79	389.50	9,350.39	10,034.94	684.55	....
5,095.79	3,825.61	3,424.30	1,712.15	915.06	27,437.56	27,858.44	420.88	....
1,252.51	1,017.75	924.74	462.37	243.44	5,886.08	4,952.66	....	933.42
1,694.54	1,692.31	1,537.65	768.83	404.79	10,219.63	11,479.92	1,260.29	....
5,441.21	3,275.41	2,976.08	1,488.04	783.45	20,847.23	20,757.59	....	89.64
9,059.13	4,783.94	4,346.75	2,173.38	1,144.28	32,496.59	37,246.67	4,750.08	....
1,909.61	838.70	762.05	381.03	200.61	6,411.21	6,933.36	522.15	....
2,437.90	2,243.78	2,005.58	1,002.79	536.69	12,549.73	12,413.37	....	136.36
13,104.65	4,524.12	4,078.02	2,039.01	1,082.14	32,802.63	29,285.52	....	3,517.11
10,152.47	4,169.90	3,744.99	1,872.50	997.41	30,927.15	29,625.16	....	1,301.99
816.39	711.08	646.10	323.05	170.08	3,733.72	3,681.16	....	52.56

$42,831.71 used for the purposes of rural power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain Districts or charged to the adjustment) of the actual costs in the

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Drumbo R.P.D.—Blenheim, Burford and Blandford twps	* 87,935.98	42,581.22	45,354.76	3,074.86
Dundas R.P.D.—Flamboro W., Beverly, Glanford, Ancaster, Flamboro E. and Nelson twps.	217,102.98	105,158.35	111,944.63	11,664.12
Dunnville R.P.D.—Moulton and Dunn twps.	22,796.81	11,398.40	11,398.41	661.05
Dutton R.P.D.—Dunwich and Aldboro twps.	71,844.00	35,922.00	35,922.00	4,045.35
Elmira R.P.D.—Woolwich, Peel and Pilkington twps	25,946.64	12,973.32	12,973.32	1,266.98
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps	72,048.19	36,024.09	36,024.10	3,518.32
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S. and Mersea twps	*133,643.40	65,962.02	67,681.38	6,636.62
Exeter R.P.D.—Hay, Stephen, Usborne, Tuckersmith, Biddulph and Bosanquet twps	*124,877.46	61,763.09	63,114.37	9,405.61
Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps	*55,581.55	27,459.42	28,122.13	1,236.38
Galt R.P.D.—Dumfries N., Dumfries S. and Beverly twps	74,107.78	37,053.89	37,053.89	4,943.82
Georgetown R.P.D.—Esquesing and Chinguacousy twps	83,413.58	41,706.79	41,706.79	3,850.11
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps	50,088.57	25,044.28	25,044.29	2,741.14
Grantham R.P.D.—Grantham and Niagara twps	131,197.14	61,518.57	69,678.57	13,143.62
Guelph R.P.D. — Eramosa, Nassagaweya, Guelph and Puslinch twps	164,531.48	82,240.14	82,291.34	10,077.40
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N. and Oneida twps	*94,791.28	46,697.12	48,094.16	6,894.50
Harriston R.P.D.—Minto and Howick twps.	*31,235.27	15,337.48	15,897.79	574.34
Harrow R.P.D.—Colchester S., Malden, Colchester N. and Gosfield S. twps	131,718.56	65,859.28	65,859.28	13,562.40
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps	279,995.25	139,997.63	139,997.62	10,535.64
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps	87,976.27	43,988.14	43,988.13	5,536.55
Keswick R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps	140,859.90	68,853.76	72,006.14	14,432.86
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps	*269,434.78	132,630.71	136,804.07	18,547.35
Listowel R.P.D.—Wallace, Elma and Grey twps	75,183.19	37,591.59	37,591.60	3,556.73
London R.P.D.—Westminster, Delaware, London, Nissouri W. and Lobo twps	*409,637.62	204,498.97	205,138.65	38,996.08
Lucan R.P.D.—Stephen, London, McGillivray and Biddulph twps	*55,492.46	27,606.15	27,886.31	1,951.30

Note.—Items marked * include portions of transmission lines of systems aggregating

RURAL POWER DISTRICTS *N.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, and Municipalities comprising certain other Districts upon ascertainment (by annual year ending October 31, 1931

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and adminis-	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,911.74	1,813.09	1,591.93	795.96	433.67	9,621.25	10,682.89	1,061.64	....
5,180.94	4,200.13	3,723.23	1,861.61	1,004.64	27,634.67	32,200.84	4,566.17	....
646.48	384.63	349.48	174.74	92.00	2,308.38	1,741.20	....	567.18
2,226.97	1,387.17	1,260.40	630.20	331.80	9,881.89	9,457.79	....	424.10
941.34	486.35	441.90	220.95	116.33	3,473.85	3,358.95	....	114.90
2,388.56	1,317.36	1,196.97	598.49	315.10	9,334.80	9,053.68	....	281.12
5,263.92	2,861.66	2,565.76	1,282.87	684.48	19,295.31	22,031.11	2,735.80	....
7,374.47	2,643.29	2,375.28	1,187.63	632.26	23,618.54	25,110.57	1,492.03	....
1,235.03	907.48	811.29	405.65	217.07	4,812.90	4,978.19	165.29	....
2,398.41	1,364.53	1,239.83	619.92	326.39	10,892.90	10,825.93	....	66.97
2,619.85	1,624.80	1,476.31	738.16	388.64	10,697.87	10,214.48	....	483.39
1,277.82	785.42	713.64	356.82	187.87	6,062.71	5,673.20	....	389.51
6,604.88	2,459.03	2,125.51	1,062.75	588.18	25,983.97	24,981.34	....	1,002.63
5,039.80	3,722.89	3,381.64	1,690.82	890.49	24,803.04	23,102.39	....	1,700.65
3,490.79	1,500.04	1,335.80	667.90	358.80	14,247.83	16,062.07	1,814.24	....
794.04	389.39	342.60	171.29	93.14	2,364.80	1,891.43	....	473.37
6,151.64	2,712.83	2,464.91	1,232.46	648.89	26,773.13	30,243.61	3,470.48	....
6,873.50	5,672.50	5,154.11	2,577.05	1,356.82	32,169.62	33,182.08	1,012.46	....
3,686.96	1,873.11	1,701.93	850.97	448.03	14,097.55	18,302.16	4,204.61	....
6,660.18	2,349.00	2,102.90	1,051.45	561.86	27,158.25	26,787.34	....	370.91
13,517.13	5,720.46	5,134.14	2,567.06	1,368.29	46,854.43	51,769.90	4,915.47	....
2,929.39	1,491.63	1,355.31	677.65	356.79	10,367.50	10,503.10	135.60	....
21,804.13	8,774.66	7,959.98	3,979.99	2,098.84	83,613.68	87,270.00	3,656.32	....
964.12	1,221.12	1,103.92	551.96	292.08	6,084.50	6,443.44	358.94	....

$42,831.71 used for the purposes of rural power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain Districts or charged to the adjustment) of the actual costs in the

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps	91,485.35	45,742.67	45,742.68	5,125.79
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps	*198,364.55	98,247.08	100,117.47	9,760.16
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps	*119,651.75	59,545.72	60,106.03	6,308.49
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps	70,010.48	35,005.24	35,005.24	4,102.82
Milverton R.P.D.—Mornington, Wellesley, Ellice and Elma twps	56,144.98	28,072.49	28,072.49	1,718.26
Mitchell R.P.D.—Hibbert, Fullarton, Downie, Ellice, Logan, McKillop and Elma twps	101,066.62	50,533.31	50,533.31	5,585.02
Newmarket R.P.D.—Georgina, Gwillimbury E., King, Whitchurch, Scott and Uxbridge twps	99,470.94	49,735.47	49,735.47	7,681.84
Niagara R.P.D.—Niagara and Stamford twps	*116,563.11	57,914.13	58,648.98	12,270.88
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps	*139,149.96	68,064.66	71,085.30	6,927.13
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps	22,579.12	11,289.56	11,289.56	1,784.83
Palmerston R.P.D.—Maryborough, Peel, Arthur, Wallace and Minto twps	*44,513.30	22,069.89	22,443.41	1,055.07
Petrolia R.P.D.—Sarnia, Plympton, Enniskillen and Moore twps	*24,902.88	12,008.75	12,894.13	991.92
Preston R.P.D.—Waterloo, Guelph, Puslinch, Dumfries N. and Woolwich twps	*284,424.12	141,973.93	142,450.19	21,120.39
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps	196,931.59	98,465.80	98,465.79	11,734.45
St. Jacobs R.P.D.—Wellesley, Woolwich, Peel and Waterloo twps	99,138.34	49,503.52	49,634.82	6,538.93
St. Marys R.P.D.—Fullarton, Usborne, Blanshard, Downie, Nissouri E. and Nissouri W. twps	173,218.30	86,609.15	86,609.15	7,162.00
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster and Dunwich twps	276,335.79	137,474.14	138,861.65	12,809.02
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps	273,582.37	134,083.94	139,498.43	24,483.69
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps	330,603.03	165,301.52	165,301.51	28,639.01
Sarnia R.P.D.—Sarnia, Moore and Plympton twps	*203,503.61	99,510.14	103,993.47	17,976.49
Scarboro R.P.D.—Scarboro, Pickering and York N. twps	165,790.59	82,895.30	82,895.29	7,595.51
Seaforth R.P.D.—Tuckersmith, McKillop and Hibbert twps	22,694.34	10,716.97	11,977.37	1,678.81
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham, Townsend and Walpole twps	*109,230.06	53,460.25	55,769.81	4,943.57

Note—.—Items marked * include portions of transmission lines of systems aggregating

RURAL POWER DISTRICTS *N.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, and Municipalities comprising certain other Districts upon ascertainment (by annual year ending October 31, 1931

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,184.12	1,882.29	1,710.27	855.14	450.23	12,207.84	12,493.80	285.96	....
5,587.23	4,143.66	3,727.58	1,863.78	991.13	26,073.54	32,565.42	6,491.88	....
3,728.04	2,154.03	1,945.97	972.98	515.23	15,624.74	13,954.26	....	1,670.48
4,020.26	1,481.01	1,345.66	672.83	354.25	11,976.83	11,912.65	....	64.18
1,690.99	913.32	829.85	414.93	218.46	5,785.81	5,025.47	....	760.34
2,920.63	1,933.67	1,756.96	878.48	462.52	13,537.28	14,556.59	1,019.31	....
3,852.09	2,069.52	1,868.75	934.37	495.02	16,901.59	18,009.28	1,107.69	....
5,156.32	2,505.62	2,261.94	1,130.97	599.33	23,925.06	26,332.32	2,407.26	....
7,422.26	3,081.48	2,739.45	1,369.73	737.07	22,277.12	23,135.14	858.02	....
1,486.78	494.29	449.12	224.56	118.23	4,557.81	4,495.73	....	62.08
1,516.72	974.84	878.28	439.14	233.17	5,097.22	3,259.40	....	1,837.82
1,122.73	556.26	487.71	243.85	133.05	3,535.52	3,450.15	....	85.37
10,044.24	5,945.53	5,392.67	2,696.33	1,422.13	46,621.29	49,974.54	3,353.25	....
6,362.60	4,194.09	3,810.80	1,905.40	1,003.19	29,010.53	29,404.49	393.96	....
3,682.63	1,976.71	1,793.44	896.72	472.81	15,361.24	15,855.27	494.03	....
3,579.77	3,358.99	3,052.02	1,526.01	803.44	19,482.23	18,186.75	....	1,295.48
9,106.85	5,643.19	5,099.73	2,549.86	1,349.81	36,558.46	43,345.71	6,787.25	....
18,384.67	5,469.65	4,896.17	2,448.09	1,308.30	56,990.57	53,273.86	....	3,716.11
23,434.37	7,027.47	6,385.26	3,192.63	1,680.92	70,359.66	79,510.60	9,150.94	....
12,867.11	4,413.75	3,920.73	1,960.36	1,055.73	42,194.17	44,536.48	2,342.31	....
4,302.20	3,372.73	3,064.51	1,532.26	806.73	20,673.94	26,078.48	5,404.54	....
1,417.90	501.89	432.37	216.18	120.05	4,367.20	4,196.80	....	170.40
2,921.72	1,822.77	1,610.00	805.00	435.99	12,539.05	13,665.69	1,126.64	....

$42,831.71 used for the purposes of rural power districts.

NIAGARA SYSTEM—

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District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Stamford R.P.D.—Thorold twp.	39,736.87	19,868.44	19,868.43	4,182.41
Stratford R.P.D.—Ellice, Downie, Easthope N. and Easthope S. twps.	68,386.58	33,932.43	34,454.15	4,791.74
Strathroy R.P.D.—Lobo, Adelaide, Metcalfe, Ekfrid, Caradoc and Williams E. twps.	99,034.35	49,340.40	49,693.95	3,339.28
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps.	167,060.86	83,530.43	83,530.43	12,961.25
Tavistock R.P.D.—Easthope N., Easthope S., Zorra E. and Ellice twp.	116,553.46	58,276.73	58,276.73	4,825.33
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.	95,137.63	47,318.57	47,819.06	3,467.83
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W., Tilbury N., Romney, Mersea and Rochester twps.	*85,583.34	42,185.21	43,398.13	3,208.86
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton, Walsingham N., and Norwich N. twps.	195,698.51	97,849.25	97,849.26	10,131.06
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	143,784.79	71,560.03	72,224.76	6,142.68
Walsingham R. P. D. — Walsingham N., Walsingham S., Houghton, Charlotteville, Windham and Middleton twps.	*111,970.72	55,406.54	56,564.18	5,229.97
Walton R.P.D.—Wawanosh E., Wawanosh W., Morris, Grey, Hullett and McKillop twps.	*65,728.13	31,209.04	34,519.09	3,045.85
Waterdown R.P.D.—Flamboro E., Flamboro W., and Nelson twps.	*175,897.53	77,335.80	98,561.73	17,444.85
Waterford R. P. D. — Windham and Townsend twps.	90,627.80	45,313.90	45,313.90	4,093.40
Watford R.P.D.—Warwick, Adelaide and Metcalfe twps.	23,961.35	11,980.67	11,980.68	636.84
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet, Humberstone, Willoughby and Moulton twps.	545,540.52	269,708.47	275,832.05	30,523.85
Woodbridge R.P.D.—York N., Toronto, Vaughan, Etibicoke, Toronto Gore, Albion, King and Chinguacousy twps.	*317,055.52	157,753.00	159,302.52	18,011.26
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps.	213,080.41	106,540.20	106,540.21	13,479.66
	11,421,304.32	5,652,109.19	5,769,195.13	
Non-operating capital	137,028.86	68,489.00	68,539.86	
Totals	11,558,333.18	5,720,598.19	5,837,734.99	713,359.34

Note.—Items marked * include portions of transmission lines of systems aggregating

RURAL POWER DISTRICTS *N.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each District, and Municipalities comprising certain other Districts upon ascertainment (by annual year ending October 31, 1931

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,848.29	843.00	765.96	382.98	201.64	11,224.28	10,974.52	....	249.76
3,364.35	1,251.22	1,126.44	563.22	299.28	11,396.25	12,189.55	793.30	....
3,152.18	2,064.28	1,868.56	934.28	493.76	11,852.34	10,214.61	....	1,637.73
4,853.79	3,563.81	3,238.12	1,619.06	852.44	27,088.47	36,921.59	9,833.12	....
4,571.65	2,442.65	2,219.42	1,109.71	584.26	15,753.02	14,943.46	....	809.56
3,493.07	1,839.79	1,662.20	831.10	440.06	11,734.05	11,621.90	....	112.15
2,325.94	1,576.09	1,408.54	704.27	376.99	9,600.69	10,092.27	491.58	....
6,754.84	4,036.38	3,667.51	1,833.76	965.47	27,389.02	26,920.27	....	468.75
6,067.58	3,063.85	2,775.61	1,387.81	732.85	20,170.38	20,660.21	489.83	....
2,059.70	2,129.60	1,911.83	955.92	509.38	12,796.40	14,200.97	1,404.57	....
2,511.83	1,395.20	1,201.49	600.75	333.72	9,088.84	9,954.88	866.04	....
5,240.23	2,727.18	2,189.42	1,094.71	652.32	29,348.71	37,895.17	8,546.46	....
1,598.63	1,861.34	1,691.24	845.62	445.22	10,535.45	12,218.99	1,683.54	....
649.41	512.66	465.81	232.91	122.62	2,620.25	2,571.80	....	48.45
26,783.12	11,374.31	10,111.20	5,055.60	2,720.61	86,568.69	95,038.89	8,470.20	....
13,818.76	6,835.78	6,181.27	3,090.63	1,635.07	49,572.77	47,871.42	....	1,701.35
8,761.78	4,588.76	4,169.41	2,084.71	1,097.60	34,181.92	35,141.18	959.26	....
460,488.04	232,017.53	208,799.24	104,399.62	55,496.81	1,774,560.58	1,888,536.58	141,311.42	27,335.42

$42,831.71 used for the purposes of rural power districts.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Acton	Jan., 1913	637.31			637.31
Agincourt	Nov., 1922	728.67			728.67
Ailsa Craig	Jan., 1916	211.72			211.72
Alvinston	April, 1922	134.50			134.50
Amherstburg	Nov., 1925	3,064.74			3,064.74
Ancaster twp	May, 1923	153.65			153.65
Arkona	Dec., 1926	243.58			243.58
Aylmer	Mar., 1918	2,024.91			2,024.91
Ayr	Jan., 1915		26.14	26.14	
Baden	May, 1912	324.85			324.85
Beachville	Aug., 1912	1,286.40			1,286.40
Belle River	Dec., 1922	447.69			447.69
Blenheim	Nov., 1915	587.78			587.78
Blyth	July, 1924	548.08			548.08
Bolton	Feb., 1915	321.72			321.72
Bothwell	Sept., 1915	119.66			119.66
Brampton	Nov., 1911	8,207.36			8,207.36
Brantford	Feb., 1914	11,803.58			11,803.58
Brantford twp	May, 1924		1,273.20	1,273.20	
Bridgeport	Mar., 1928		335.55	335.55	
Brigden	Jan., 1918	460.57			460.57
Brussels	July, 1924	382.44			382.44
Burford	June, 1915	875.51			875.51
Burgessville	Nov., 1916	84.05			84.05
Caledonia	Oct., 1912	626.39			626.39
Campbellville	Jan., 1925	744.35			744.35
Cayuga	Nov., 1924	888.39			888.39
Chatham	Feb., 1915	6,819.93			6,819.93
Chippawa	Sept., 1919		58.60	58.60	
Clifford	May, 1924	19.51			19.51
Clinton	Mar., 1914	870.75			870.75
Comber	May, 1915	130.15			130.15
Cottam	Nov., 1926	298.28			298.28
Courtright	Dec., 1923	319.63			319.63
Dashwood	Sept., 1917	251.23			251.23
Delaware	Mar., 1915	131.74			131.74
Dorchester	Dec., 1914	165.48			165.48
Drayton	Mar., 1918	238.79			238.79
Dresden	April, 1915	472.52			472.52
Drumbo	Dec., 1914		235.61		
Dublin	Oct., 1917		401.95		
Dundas	Jan., 1911	3,138.39			3,138.39
Dunnville	June, 1918	1,681.36			1,681.36
Dutton	Sept., 1915	783.25			783.25
East Windsor	Nov., 1922	7,551.82			7,551.82

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
12.29		585.42		597.71	
16.27		414.28		430.55	
3.53		315.58		319.11	
2.67		581.70		584.37	
54.27		2,565.24		2,619.51	
2.69		149.18		151.87	
4.27		150.90		155.17	
41.19		372.36		413.55	
	0.64	732.40		731.76	
6.44		257.40		263.84	
29.77		673.41		703.18	
8.54		140.70		149.24	
11.47		369.36		380.83	
10.45		188.85		199.30	
5.96			94.89		88.93
2.19			94.26		92.07
167.43		6,620.12		6,787.55	
232.84		9,590.37		9,823.21	
	25.53		1,042.53		1,068.06
	6.80		28.41		35.21
7.74		669.53		677.27	
7.08			10.37		3.29
20.69		565.23		585.92	
1.67			52.51		50.84
12.42		32.25		44.67	
5.33		15.22		20.55	
14.80		551.22		566.02	
117.34		6,087.65		6,204.99	
	1.59	306.47		304.88	
0.41			321.35		320.94
17.18		346.31		363.49	
2.74			496.42		493.68
6.55		279.68		286.23	
5.81		335.30		341.11	
4.54		58.22		62.76	
2.66			23.82		21.16
3.28		156.28		159.56	
4.58			552.67		548.09
7.87		782.30		790.17	
	9.42	246.68		1.65	
	16.08	85.35			332.68
55.72		860.97		916.69	
33.35		2,155.79		2,189.14	
13.05		485.27		498.32	
119.50		2,879.83		2,999.33	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Elmira	Nov., 1913	1,316.00			1,316.00
Elora	Nov., 1914		861.49	861.49	
Embro	Jan., 1915	704.40			704.00
Erieau	July, 1924		35.43	35.43	
Erie Beach	July, 1925	99.17			99.17
Essex	Nov., 1923	946.01			946.01
Etobicoke twp	Aug., 1917	6,034.43			6,034.43
Exeter	June, 1916	1,512.49			1,512.49
Fergus	Nov., 1914		340.16	372.88	
Fonthill	June, 1926	432.39			432.39
Forest	Mar., 1917	851.22			851.22
Galt	May, 1911	15,775.62			15,775.62
Georgetown	Sept., 1913	237.92			237.92
Glencoe	Aug., 1920	359.35			359.35
Goderich	Feb., 1914	1,968.53			1,968.53
Granton	July, 1916	71.42			71.42
Guelph	Dec., 1910	16,714.31			16,714.31
Hagersville	Sept., 1913	3,362.98			3,362.98
Hamilton	Feb., 1911	34,045.37			34,045.37
Harriston	July, 1916	454.99			454.99
Harrow	Nov., 1923	1,915.00			1,915.00
Hensall	Jan., 1917	1,121.62			1,121.62
Hespeler	Feb., 1911	3,462.97			3,462.97
Highgate	Dec., 1916	66.79			66.79
Humberstone	Oct., 1924		479.88		
Ingersoll	May, 1911	4,239.34			4,239.34
Jarvis	Feb., 1924	685.43			685.43
Kingsville	Nov., 1923	2,869.35			2,869.35
Kitchener	Jan., 1911	22,563.92			22,563.92
Lambeth	April, 1915	412.32			412.32
LaSalle	Nov., 1925	1,593.06			1,593.06
Leamington	Nov., 1923	3,517.84			3,517.84
Listowel	June, 1916	957.58			957.58
London	Jan., 1911	38,739.35			38,739.35
London Railway Commission	Aug., 1914	429.37			429.37
London twp	Jan., 1925	949.32			949.32
Long Branch	Jan., 1931				
Lucan	Feb., 1915	672.75			672.75
Lynden	Nov., 1915	255.75			255.75
Markham	April, 1920	1,481.56			1,481.56
Merlin	Dec., 1922	1,072.64			1,072.64
Merritton	Nov., 1920	1,091.52			1,091.52
Milton	April, 1913	841.19			841.19
Milverton	June, 1916		298.18	298.18	
Mimico	May, 1912	2,120.02			2,120.02

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
22.07			886.15		864.08
	16.80	348.94		332.14	
12.89		871.17		884.06	
	0.87	27.25		26.38	
1.65		86.57		88.22	
18.76		872.86		891.62	
106.47		5,580.56		5,687.03	
30.07		821.78		851.85	
	7.15	306.26		331.83	
8.69		111.88		120.57	
15.95		939.74		955.69	
312.92		9,344.73		9,657.65	
4.72		163.10		167.82	
5.99		267.78		273.77	
39.05		499.38		538.43	
1.41			14.32		12.91
331.54		6,062.28		6,393.82	
69.87		1,354.91		1,424.78	
675.31			14,170.76		13,495.45
7.58			901.94		894.36
39.70		282.92		322.62	
25.11		402.39		427.50	
55.41		5,882.14		5,937.55	
1.31			89.16		87.85
	19.19	85.52			413.55
150.99		1,897.51		2,048.50	
13.83		370.77		384.60	
53.48		849.09		902.57	
375.86		28,231.29		28,607.15	
8.94		357.10		366.04	
38.25		705.67		743.92	
68.62		22.10		90.72	
20.15		317.84		337.99	
768.42		31,039.07		31,807.49	
9.27			5,517.45		5,508.18
19.86		837.82		857.68	
		601.56		601.56	
13.08		471.77		484.85	
5.52		179.07		184.59	
29.79		953.58		983.37	
22.75		130.60		153.35	
21.05			474.51		453.46
16.50			1,745.22		1,728.72
	5.29	253.60		248.31	
44.61		2,152.70		2,197.31	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Mitchell	Sept., 1911	1,051.55			1,051.55
Moorefield	Mar., 1918	99.99			99.99
Mount Brydges	Mar., 1915	543.98			543.98
Newbury	Mar., 1921		64.71	64.71	
New Hamburg	Mar., 1911	278.51			278.51
New Toronto	Feb., 1914	7,888.21			7,888.21
Niagara Falls	Dec., 1915		4,908.34		
Niagara-on-Lake	Aug., 1919	1,189.97			1,189.97
Norwich	May, 1912	870.31			870.31
Oil Springs	Feb., 1918		18.79	18.79	
Otterville	Feb., 1916	375.23			375.23
Palmerston	July, 1916	303.24			303.24
Paris	Feb., 1914	1,478.52			1,478.52
Parkhill	May, 1920	819.02			819.02
Petrolia	May, 1916	3,079.00			3,079.00
Plattsville	Dec., 1914		89.17	89.17	
Point Edward	Nov., 1916	2,259.39			2,259.39
Port Colborne	Mar., 1920		1,867.77		
Port Credit	Aug., 1912	1,212.12			1,212.12
Port Dalhousie	Nov., 1912	1,714.96			1,714.96
Port Dover	Dec., 1921	1,114.30			1,114.30
Port Rowan	Nov., 1926	28.83			28.83
Port Stanley	April, 1912	735.25			735.25
Preston	Jan., 1911	4,468.83			4,468.83
Princeton	Jan., 1915		147.13	147.13	
Queenston	Mar., 1921		116.88	116.88	
Richmond Hill	June, 1925	549.85			549.85
Ridgetown	Dec., 1915	740.20			740.20
Riverside	Nov., 1922	2,920.61			2,920.61
Rockwood	Sept., 1913	187.22			187.22
Rodney	Feb., 1917	237.79			237.79
St. Catharines	April, 1914	265.92			265.92
St. Clair Beach	Nov., 1922	351.14			351.14
St. George	Sept., 1915	653.45			653.45
St. Jacobs	Sept., 1917	683.77			683.77
St. Mary's	May, 1911	1,186.22			1,186.22
St. Thomas	April, 1911	11,525.62			11,525.62
Sandwich	Feb., 1924		204.28	204.28	
Sarnia	Dec., 1916	13,792.60			13,792.60
Scarboro twp	Aug., 1918	12,143.18			12,143.18
Seaforth	Nov., 1911	1,250.46			1,250.46
Simcoe	Aug., 1915	3,020.79			3,020.79
Springfield	Aug., 1917	354.14			354.14
Stamford twp	Nov., 1916	1,420.55			1,420.55
Stouffville	Sept., 1923	870.69			870.69

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
20.17	....	422.69	....	442.86	....
1.98	....	....	282.60	....	280.62
9.77	....	672.87	....	682.64	....
....	1.33	3.30	....	1.97	....
5.52	....	....	229.79	....	224.27
131.40	....	5,410.94	....	5,542.34	....
....	196.33	....	8,561.65	....	13,666.32
24.33	....	531.35	....	555.68	....
17.50	....	256.98	....	274.48	....
....	0.34	....	358.49	....	358.83
6.82	....	267.85	....	274.67	....
6.01	....	....	763.28	....	757.27
26.09	....	1,665.84	....	1,691.93	....
18.34	....	558.27	....	576.61	....
62.14	....	2,052.36	....	2,114.50	....
....	1.68	471.95	....	470.27	....
44.82	....	2,451.75	....	2,496.57	....
....	74.71	194.28	....	....	1,748.20
21.39	....	270.08	....	291.47	....
31.41	....	....	137.94	....	106.53
22.37	....	386.39	....	408.76	....
0.48	....	1,292.42	....	1,292.90	....
16.57	....	556.12	....	572.69	....
88.64	....	4,924.33	....	5,012.97	....
....	3.22	1,010.27	....	1,037.05	....
....	2.48	174.18	....	171.70	....
11.57	....	1,119.86	....	1,131.43	....
13.30	....	203.39	....	216.69	....
48.65	....	1,240.87	....	1,289.52	....
3.22	....	616.85	....	620.07	....
3.96	....	46.95	....	50.91	....
4.90	....	....	5,284.35	....	5,279.45
5.85	....	179.48	....	185.33	....
11.68	....	171.10	....	182.78	....
15.18	....	181.14	....	196.32	....
23.40	....	3,379.27	....	3,402.67	....
186.94	....	8,051.19	....	8,238.13	....
....	3.60	....	2,578.75	....	2,582.35
265.91	....	19,007.40	....	19,273.31	....
247.38	....	8,324.53	....	8,571.91	....
25.29	....	383.28	....	408.57	....
50.32	....	2,992.41	....	3,042.73	....
7.15	....	....	101.01	....	93.86
27.09	....	878.19	....	905.28	....
19.34	....	549.41	....	568.75	....

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Stratford	Jan., 1911	17,721.23			17,721.23
Strathroy	Dec., 1914	2,829.49			2,829.49
Sutton	Aug., 1923		94.64	94.64	
Tavistock	Nov., 1916	355.92			355.92
Tecumseh	Nov., 1922	890.01			890.01
Thamesford	Feb., 1914	433.92			433.92
Thamesville	Oct., 1915	371.28			371.28
Thedford	May, 1922	162.06			162.06
Thorndale	Mar., 1914		47.74	47.74	
Thorold	Jan., 1921	1,985.03			1,985.03
Tilbury	April, 1915	1,612.71			1,612.71
Tillsonburg	Aug., 1911	1,663.08			1,663.08
Toronto	June, 1911	390,348.10			390,348.10
Toronto twp	Aug., 1913	3,125.69			3,125.69
Walkerville	Nov., 1914	18,476.47			18,476.47
Wallaceburg	Feb., 1915	2,889.40			2,889.40
Wardsville	June, 1921	133.84			133.84
Waterdown	Nov., 1911	700.03			700.03
Waterford	April, 1915	534.94			534.94
Waterloo	Dec., 1910	2,787.05			2,787.05
Watford	Sept., 1917	845.28			845.28
Welland	Sept., 1917	4,527.35			4,527.35
Wellesley	Nov., 1916	381.87			381.87
West Lorne	Jan., 1917		222.19		504.22
Weston	Jan., 1911	7,687.57			7,687.57
Wheatley	Feb., 1924	24.46			24.46
Windsor	Oct., 1914	47,911.76			47,911.76
Woodbridge	Dec., 1914	1,071.89			1,071.89
Woodstock	Jan., 1911	11,730.58			11,730.58
Wyoming	Nov., 1916	59.26			59.26
York East twp	July, 1925	13,258.13			13,258.13
York North twp	Nov., 1923	2,799.11			2,799.11
Zurich	Sept., 1917	463.68			463.68
Toronto Transportation Comm.	Jan., 1927	969.16			969.16
RURAL POWER DISTRICTS*					
Acton R.P.D.	Feb., 1928	70.70			
Ailsa Craig R.P.D	Sept., 1930	3.33			
Alvinston R.P.D	June, 1929	73.14			
Amherstburg R.P.D	Nov., 1923	18,054.78			
Aylmer R.P.D	Nov., 1922	7,258.95			

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1903, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
351.51		21,687.59		22,039.10	
56.87		2,655.00		2,711.87	
	1.96	452.69		450.73	
6.55		286.86		293.41	
14.83		65.83		80.66	
7.61		337.21		344.82	
7.36		443.81		451.17	
3.16			87.09		83.93
	1.25		253.29		254.54
39.37			771.34		731.97
27.25		343.34		370.59	
27.52		667.39		694.91	
6,202.79		369,086.96		375,289.75	
52.07		1,706.72		1,758.79	
307.77		8,398.59		8,706.36	
55.10			758.48		703.38
2.23		296.31		298.54	
12.03			338.86		326.83
9.91		805.84		815.75	
44.29		3,361.44		3,405.73	
18.13		863.21		881.34	
75.41		1,918.98		1,994.39	
7.32		168.74		176.06	
	20.61		9.58		756.60
139.06		6,785.18		6,924.24	
0.48			233.01		232.53
950.36		34,606.05		35,556.41	
17.86			10.48	7.38	
230.11		7,676.40		7,906.51	
1.25		100.94		102.19	
194.69		9,066.62		9,261.31	
49.08		3,181.04		3,230.12	
8.19		334.98		343.17	
21.45		4,404.30		4,425.75	
2.83			241.40		167.87
0.13		90.70		94.16	
2.93			217.87		141.80
722.19		4,487.35		23,264.32	
290.36		2,419.22		9,968.53	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Ayr R.P.D	July, 1926	1,658.10			
Baden R.P.D	Sept., 1922		560.34		
Beamsville R.P.D	Jan., 1923	27,662.72			
Belle River R.P.D	Dec., 1922	21,643.15			
Blenheim R.P.D	July, 1924	9,217.11			31.36
Bond Lake R.P.D	Mar., 1924	36,298.01			199.28
Bothwell R.P.D	Dec., 1923	7,468.74			
Brampton R.P.D	Nov., 1923	1,086.83			13.43
Brant R.P.D	Oct., 1922	164.76			
Brigden R.P.D	Jan., 1927		1,058.83		
Burford R.P.D	Dec., 1926	2,168.24			
Caledonia R.P.D	Oct., 1925		478.72		92.44
Chatham R.P.D	May, 1922	10,825.47			9.09
Chippawa R.P.D	July, 1922	1,962.56			
Clinton R.P.D	July, 1928		981.38		
Delaware R.P.D	Oct., 1922	5,769.55			
Dorchester R.P.D	Dec., 1921	448.54			
Dresden R.P.D	May, 1928	96.94			
Drumbo R.P.D	Aug., 1922	715.68			
Dundas R.P.D	Jan., 1922	11,828.00			
Dunnville R.P.D	July, 1928		698.80		
Dutton R.P.D	Feb., 1926	2,066.29			
Elmira R.P.D	June, 1926		239.84		
Elora R.P.D	Jan., 1926	1,028.73			
Essex R.P.D	Nov., 1924	10,249.28			
Exeter R.P.D	Nov., 1922	10,437.72			
Forest R.P.D	Nov., 1926	408.99			
Galt R.P.D	Oct., 1922	2,380.25			
Georgetown R.P.D	Nov., 1924	3,851.28			11.97
Goderich R.P.D	June. 1925	632.12			
Grantham R.P.D	Nov., 1924	1,478.53			
Guelph R.P.D	Jan., 1925		2,700.08		
Haldimand R.P.D	Oct., 1925	3,834.33			
Harriston R.P.D	Dec., 1929		31.81		
Harrow R.P.D	Nov., 1923	7,430.01			
Ingersoll R.P.D	Oct., 1922	2,729.64			
Jordan R.P.D	May, 1922	5,204.93			
Keswick R.P.D	Mar., 1924		4,065.73		
Kingsville R.P.D	Nov., 1923	25,047.77			
Listowel R.P.D	Oct., 1926	1,474.04			17.76
London R.P.D	Nov., 1922	12,993.60			87.77
Lucan R.P.D	June, 1926		69.13		57.53

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
66.32			16.20	1,708.22	
	22.41	20.38			562.37
1,106.51		6,869.31		35,638.54	
865.73		4,440.63		26,949.51	
367.94		3,586.27		13,139.96	
1,447.70		7,409.62		44,956.05	
298.75			263.53	7,503.96	
43.20		684.55		1,801.15	
6.59		420.88		592.23	
	42.35		933.42		2,034.60
86.73		1,260.29		3,515.26	
	22.54		89.64		683.34
432.75		4,750.08		15,999.21	
78.50		522.15		2,563.21	
	39.26		136.36		1,157.00
230.78			3,517.11	2,483.22	
17.94			1,301.99		835.51
3.88			52.56	48.26	
28.63		1,061.64		1,805.95	
473.12		4,566.17		16,867.29	
	27.95		567.18		1,293.93
82.65			424.10	1,724.84	
	9.59		114.90		364.33
41.15			281.12	788.76	
409.97		2,735.80		13,395.05	
417.51		1,492.03		12,347.26	
16.36		165.29		590.64	
95.21			66.97	2,408.49	
153.66			483.39	3,509.58	
25.28			389.51	267.89	
59.14			1,002.63	535.04	
	108.00		1,700.65		4,508.73
153.37		1,814.24		5,801.94	
	1.27		473.37		506.45
297.20		3,470.48		11,197.69	
109.19		1,012.46		3,851.29	
208.20		4,204.61		9,617.74	
	162.63		370.91		4,599.27
1,001.91		4,915.47		30,965.15	
58.72		135.60		1,650.60	
517.46		3,656.32		17,079.61	
	4.26	358.94		228.02	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Lynden R.P.D.	Feb., 1922	665.87			
Markham R.P.D.	Dec., 1922	13,181.44			
Merlin R.P.D.	Nov., 1928	173.81			
Milton R.P.D.	Jan., 1925	5,814.18			197.29
Milverton R.P.D.	Aug., 1927		2,033.88		
Mitchell R.P.D.	Dec., 1925	1,321.35			
Newmarket R.P.D.	Mar., 1924	4,937.22			
Niagara R.P.D.	Jan., 1922	17,227.33			
Norwich R.P.D.	May, 1925	8,722.08			149.52
Oil Springs R.P.D.	Dec., 1925	2,510.36			
Palmerston R.P.D.	Oct., 1926		83.70		26.70
Petrolia R.P.D.	Aug., 1923		139.68		
Preston R.P.D.	April, 1922	5,452.79			200.75
Ridgetown R.P.D.	Mar., 1922	3,304.67			
St. Jacobs R.P.D.	Nov., 1922	4,021.53			
St. Marys R.P.D.	Dec., 1927		4,596.31		83.25
St. Thomas R.P.D.	Aug., 1923	8,179.30			57.64
Saltfleet R.P.D.	Feb., 1922	938.45			347.70
Sandwich R.P.D.	July, 1922	45,990.93			
Sarnia R.P.D.	June, 1923	8,134.03			
Scarboro R.P.D.	Dec., 1923	12,144.41			
Seaforth R.P.D.	Nov., 1927		275.31		
Simcoe R.P.D.	Nov., 1922	2,273.48			
Stamford R.P.D.	Mar., 1922	7,974.08			
Stratford R.P.D.	July, 1924	226.28			
Strathroy R.P.D.	Dec., 1926	2,397.31			
Streetsville R.P.D.	Nov., 1922	8,250.81			
Tavistock R.P.D.	April, 1923		2,398.98		
Thamesville R.P.D.	Nov., 1927	1,739.86			
Tilbury R.P.D.	Dec., 1923	3,706.44			86.00
Tillsonburg R.P.D.	Dec., 1923	8,291.49			
Wallaceburg R.P.D.	Jan., 1923	8,134.86			9.44
Walsingham R.P.D.	Dec., 1926	556.85			
Walton R.P.D.	Nov., 1924	980.87			
Waterdown R.P.D.	Oct., 1922	20,949.05			
Waterford R.P.D.	Nov., 1923		2,824.25		
Watford R.P.D.	Dec., 1929		221.20		
Welland R.P.D.	April, 1922	28,466.33			84.60
Woodbridge R.P.D.	Jan., 1923	13,163.88			
Woodstock R.P.D.	Feb., 1922	10,965.34			
Totals		1,370,631.57	35,585.80	4,044.81	856,409.52

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *N.—CREDIT OR CHARGE*

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each municipality in respect of power supplied in the year as a credit or charge to each municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
26.63		285.96		978.46	
527.26		6,491.88		20,200.58	
6.95			1,670.48		1,489.72
224.68			64.18	5,777.39	
	81.36		760.34		2,875.58
52.85		1,019.31		2,393.51	
197.49		1,107.69		6,242.40	
689.09		2,407.26		20,323.68	
345.35		858.02		9,775.93	
100.41			62.08	2,548.69	
	3.71		1,837.82		1,951.93
	5.59		85.37		230.64
212.72		3,353.25		8,818.01	
132.19		393.96		3,830.82	
160.86		494.03		4,676.42	
	183.85		1,295.48		6,158.89
325.15		6,787.25		15,234.06	
34.16			3,948.14		3,323.23
1,839.64		9,150.94		56,981.51	
325.36		2,342.31		10,801.70	
485.78		5,404.54		18,034.73	
	11.01		170.40		456.72
90.94		1,126.64		3,491.06	
318.96			249.76	8,043.28	
9.05		793.30		1,028.63	
95.89			1,637.73	855.47	
330.03		9,833.12		18,413.96	
	95.96		809.56		3,304.50
69.59			112.15	1,697.30	
146.52		491.58		4,258.54	
331.66			468.75	8,154.40	
325.04		489.83		8,940.29	
22.27		1,404.57		1,983.69	
39.23		866.04		1,886.14	
837.96		8,546.46		30,333.47	
	112.97	1,683.54			1,253.68
	8.85		48.45		278.50
1,136.38		8,470.20		37,988.31	
526.56			1,701.35	11,989.09	
437.43		959.26		12,332.33	
35,637.08	1,360.43	836,233.10	74,843.58	1,371,226.81	92,879.58

NIAGARA SYSTEM

Reserve for Renewals—October 31, 1931

Total provision for renewals to October 31, 1930	$14,072,959.13	
Deduct:		
Expenditures to October 31, 1930	1,122,631.37	
Balance brought forward October 31, 1930		$12,950,327.76
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$896,820.86	
Amounts included in costs of distribution of power within rural power districts	208,799.24	
Provision against equipment employed in respect of contracts with private companies which purchased power	285,485.15	
Reserve provided in respect of lines transferred to certain rural power districts from power properties	46,560.00	
Reserve provided in respect of the purchase of Barton Township distribution system ($6,071.03) and sundry lines purchased	6,606.03	
Interest at 4% per annum on the monthly balances at the credit of the account	518,232.30	
		1,962,503.58
		$14,912,831.34
Deduct:		
Provision for renewals on lines and equipment sold to sundry municipalities	$17,008.75	
Expenditures during the year ending October 31, 1931	108,806.70	
		125,815.45
Balance carried forward October 31, 1931		$14,787,015.89

NIAGARA SYSTEM

Reserve for Obsolescence and Contingencies—October 31, 1931

Balance brought forward October 31, 1930		$13,568,525.83
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$380,886.01	
Amounts included in the costs of distribution of power within rural power districts	104,399.62	
Provision against equipment employed in respect of contracts with private customers which purchased power	132,534.66	
Interest at 4% per annum on monthly balances at the credit of the account	542,741.03	
		1,160,561.32
		$14,729,087.15
Deduct:		
Contingencies met with during the year ending October 31, 1931		99,508.89
Balance carried forward October 31, 1931		$14,629,578.26

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1931

Municipality	Period of years ending Oct. 31, 1931	Amount	Municipality	Period of years ending Oct. 31, 1931	Amount
		$ c.			$ c.
Acton	14 years	26,638.12	Elmira	13 years	38,848.19
Agincourt	7 "	3,690.99	Elora	12 "	18,607.91
Ailsa Craig	11 "	7,817.08	Embro	12 "	5,300.72
Alvinston	8 "	7,586.70	Erieau	8 "	2,031.91
Amherstburg	14 "	20,992.59	Erie Beach	7 "	542.42
Ancaster twp	8 "	6,125.96	Essex	8 "	12,074.22
Arkona	5 "	2,012.34	Etobicoke twp	9 "	67,607.21
Aylmer	8 "	17,901.04	Exeter	10 "	18,569.49
Ayr	12 "	6,421.30	Fergus	12 "	21,767.32
Baden	14 "	16,044.33	Fonthill	6 "	1,910.76
Beachville	14 "	19,289.25	Forest	9 "	12,750.43
Belle River	9 "	3,923.04	Galt	15 "	255,978.78
Blenheim	11 "	16,978.28	Georgetown	13 "	44,271.77
Blyth	8 "	3,676.77	Glencoe	8 "	8,247.49
Bolton	11 "	8,878.96	Goderich	12 "	56,926.13
Bothwell	11 "	9,478.92	Granton	10 "	3,885.20
Brampton	15 "	73,804.62	Guelph	15 "	298,188.39
Brantford	12 "	373,173.29	Hagersville	13 "	39,188.12
Brantford twp	8 "	11,212.02	Hamilton	15 "	1,561,044.41
Bridgeport	4 "	1,540.59	Harriston	10 "	15,267.24
Brigden	9 "	5,662.74	Harrow	8 "	7,819.94
Brussels	8 "	5,319.78	Hensall	10 "	6,605.34
Burford	11 "	6,134.36	Hespeler	15 "	42,369.55
Burgessville	10 "	2,531.45	Highgate	10 "	4,891.18
Caledonia	14 "	9,702.73	Humberstone	8 "	7,090.12
Campbellville	7 "	601.38	Ingersoll	15 "	84,616.91
Cayuga	7 "	3,389.41	Jarvis	8 "	5,890.74
Chatham	11 "	180,699.00	Kingsville	8 "	16,471.37
Chippawa	9 "	7,852.98	Kitchener	15 "	565,714.79
Clifford	8 "	2,505.97	Lambeth	11 "	4,158.97
Clinton	12 "	21,193.98	LaSalle	6 "	4,888.00
Comber	11 "	9,281.87	Leamington	8 "	27,929.24
Cottam	5 "	1,260.31	Listowel	10 "	31,878.42
Courtright	8 "	2,316.94	London	15 "	1,016,783.11
Dashwood	9 "	4,011.92	London Ry. Comm.	12 "	70,725.38
Delaware	11 "	1,246.88	London twp	7 "	5,377.04
Dorchester	12 "	3,152.32	Long Branch	1 "	1,693.80
Drayton	8 "	5,294.43	Lucan	11 "	9,502.84
Dresden	11 "	14,302.63	Lynden	11 "	7,232.55
Drumbo	12 "	2,885.89	Markham	8 "	6,930.73
Dublin	9 "	2,705.54	Merlin	8 "	5,881.81
Dundas	15 "	67,946.80	Merritton	10 "	34,523.09
Dunnville	8 "	24,568.48	Milton	13 "	53,576.85
Dutton	11 "	8,836.61	Milverton	10 "	23,298.17
East Windsor	9 "	99,513.31	Mimico	14 "	57,608.49

NIAGARA SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1931

Municipality	Period of years ending Oct. 31, 1931	Amount	Municipality	Period of years ending Oct. 31, 1931	Amount
		$ c.			$ c.
Mitchell	15 years	20,346.08	Stratford	15 years	273,373.55
Moorefield	8 "	2,830.90	Strathroy	12 "	38,031.17
Mount Brydges	11 "	3,034.90	Sutton	8 "	4,974.32
Newbury	8 "	1,878.28	Tavistock	10 "	19,110.50
New Hamburg	15 "	23,652.19	Tecumseh	9 "	9,891.42
New Toronto	12 "	186,665.92			
Niagara Falls	11 "	258,025.19	Thamesford	12 "	7,786.57
Niagara-on-Lake	8 "	12,559.20	Thamesville	11 "	7,653.35
Norwich	14 "	17,626.88	Thedford	8 "	3,699.82
Oil Springs	8 "	12,165.18	Thorndale	12 "	4,294.94
			Thorold	9 "	32,733 02
Otterville	10 "	3,606.24			
Palmerston	10 "	19,083.01			
Paris	12 "	53,319.39	Tilbury	11 "	19,803.88
Parkhill	8 "	7,912.41	Tillsonburg	15 "	38,814.94
Petrolia	10 "	47,049.97	Toronto	15 "	8,036,704.72
			Toronto twp	13 "	35,561.66
Plattsville	12 "	4,145.21	Walkerville	12 "	284,578.64
Point Edward	9 "	20,045.75			
Port Colborne	10 "	37,787.73			
Port Credit	14 "	14,974.51	Wallaceburg	11 "	83,020.16
Port Dalhousie	10 "	12,693.36	Wardsville	8 "	1,402.10
			Waterdown	15 "	10,962.64
Port Dover	8 "	9,413.45	Waterford	11 "	13,745.91
Port Rowan	5 "	2,397.19	Waterloo	15 "	115,048.97
Port Stanley	14 "	17,795.02			
Preston	15 "	128,864.76			
Princeton	12 "	3,277.97	Watford	9 "	9,067.10
			Welland	9 "	117,727.06
Queenston	8 "	2,967.86	Wellesley	10 "	8,224.74
Richmond Hill	7 "	5,710.98	West Lorne	10 "	14,672.33
Ridgetown	11 "	18,432.51	Weston	15 "	102,006.43
Riverside	9 "	31,726.76			
Rockwood	13 "	5,115.19			
			Wheatley	8 "	4,560.55
Rodney	9 "	5,300.11	Windsor	12 "	843,083.61
St. Catharines	10 "	229,011.38	Woodbridge	12 "	12,839.64
St. Clair Beach	9 "	2,710.18	Woodstock	15 "	166,524.54
St. George	11 "	6,077.42	Wyoming	10 "	3,538.44
St. Jacobs	9 "	6,343.61			
St. Marys	15 "	62,168.88	York East twp	7 "	79,123.33
St. Thomas	15 "	212,411.29	York North twp	8 "	29,587.91
Sandwich	8 "	96,295.06	Zurich	9 "	6,127.15
Sarnia	10 "	255,189.01			
Scarboro twp	8 "	60,347.94			
Seaforth	15 "	31,444.96	Sandwich, Windsor & Amherstburg Ry. Co.	9 "	75,784.57
Simcoe	11 "	36,625.50			
Springfield	9 "	4,259.90	Toronto Trans. Com. (Radial Railways)	10 "	118,028.29
Stamford twp	10 "	36,505.83			
Stouffville	8 "	5,688.12	Windsor, Essex & Lake Shore Ry. Co.	2 "	5,774.66

NIAGARA SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1931

Rural power district	Period of years ending Oct. 31, 1931	Amount	Rural power district	Period of years ending Oct. 31, 1931	Amount
		$ c.			$ c.
Acton R.P.D.	4 years	159.76	**London** R.P.D.	9 years	37,154.25
Ailsa Craig R.P.D.	2 “	20.35	**Lucan** R.P.D.	6 “	2,118.17
Alvinston R.P.D.	3 “	79.76	**Lynden** R.P.D.	10 “	5,785.21
Amherstburg R.P.D.	8 “	18,541.86	**Markham** R.P.D.	9 “	8,743.35
Aylmer R.P.D.	10 “	8,242.88	**Merlin** R.P.D.	3 “	2,893.87
Ayr R.P.D.	6 “	851.89	**Milton** R.P.D.	7 “	3,005.72
Baden R.P.D.	10 “	7,671.63	**Milverton** R.P.D.	5 “	1,263.64
Beamsville R.P.D.	9 “	24,746.47	**Mitchell** R.P.D.	6 “	4,450.33
Belle River R.P.D.	9 “	8,842.87	**Newmarket** R.P.D.	8 “	5,774.97
Blenheim R.P.D.	8 “	3,970.00	**Niagara** R.P.D.	10 “	14,455.49
Bond Lake R.P.D.	8 “	17,170.50	**Norwich** R.P.D.	7 “	12,182.62
Bothwell R.P.D.	8 “	3,779.04	**Oil Springs** R.P.D.	6 “	1,664.18
Brampton R.P.D.	8 “	2,850.51	**Palmerston** R.P.D.	5 “	459.05
Brant R.P.D.	10 “	10,261.67	**Petrolia** R.P.D.	9 “	759.32
Brigden R.P.D.	5 “	1,602.55	**Preston** R.P.D.	10 “	22,786.15
Burford R.P.D.	5 “	2,597.43	**Ridgetown** R.P.D.	10 “	11,020.90
Caledonia R.P.D.	7 “	5,123.72	**St. Jacobs** R.P.D.	9 “	7,113.64
Chatham R.P.D.	10 “	12,437.73	**St. Marys** R.P.D.	4 “	4,573.52
Chippawa R.P.D.	10 “	4,752.70	**St. Thomas** R.P.D.	9 “	15,624.44
Clinton R.P.D.	4 “	2,518.95	**Saltfleet** R.P.D.	10 “	27,264.31
Delaware R.P.D.	9 “	9,616.04	**Sandwich** R.P.D.	10 “	33,140.21
Dorchester R.P.D.	10 “	14,488.04	**Sarnia** R.P.D.	9 “	15,345.01
Dresden R.P.D.	4 “	414.15	**Scarboro** R.P.D.	8 “	5,785.91
Drumbo R.P.D.	10 “	3,942.53	**Seaforth** R.P.D.	4 “	1,077.89
Dundas R.P.D.	10 “	13,005.38	**Simcoe** R.P.D.	9 “	4,145.97
Dunnville R.P.D.	4 “	293.48	**Stamford** R.P.D.	10 “	4,108.32
Dutton R.P.D.	6 “	1,935.51	**Stratford** R.P.D.	8 “	6,171.93
Elmira R.P.D.	6 “	870.18	**Strathroy** R.P.D.	5 “	1,639.74
Elora R.P.D.	6 “	3,042.24	**Streetsville** R.P.D.	9 “	8,265.54
Essex R.P.D.	7 “	6,518.55	**Tavistock** R.P.D.	9 “	4,481.39
Exeter R.P.D.	9 “	8,334.19	**Thamesville** R.P.D.	4 “	2,084.33
Forest R.P.D.	5 “	627.31	**Tilbury** R.P.D.	8 “	2,750.24
Galt R.P.D.	10 “	3,872.39	**Tillsonburg** R.P.D.	8 “	14,377.61
Georgetown R.P.D.	7 “	2,636.77	**Wallaceburg** R.P.D.	9 “	8,208.05
Goderich R.P.D.	7 “	2,049.59	**Walsingham** R.P.D.	5 “	2,935.37
Grantham R.P.D.	7 “	14,549.63	**Walton** R.P.D.	7 “	2,390.14
Guelph R.P.D.	7 “	5,243.31	**Waterdown** R.P.D.	9 “	10,359.28
Haldimand R.P.D.	7 “	2,689.94	**Waterford** R.P.D.	8 “	3,360.46
Harriston R.P.D.	2 “	185.26	**Watford** R.P.D.	2 “	278.20
Harrow R.P.D.	8 “	7,236.61	**Welland** R.P.D.	10 “	36,984.71
Ingersoll R.P.D.	10 “	7,488.55	**Woodbridge** R.P.D.	9 “	19,122.80
Jordan R.P.D.	10 “	5,095.27	**Woodstock** R.P.D.	10 “	17,205.94
Keswick R.P.D.	8 “	8,654.63			$19,068,293.89
Kingsville R.P.D.	8 “	23,512.97			
Listowel R.P.D.	5 “	2,610.68			

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

NIAGARA SYSTEM

Reserve for Sinking Fund—October 31, 1931

Total provision for sinking fund to October 31, 1930		$16,534,198.80
Provided in the year ending October 31, 1931, in respect of:		
Advances by the Province for construction of transmission lines and stations	$489,332.78	
Advances by the Province for construction of rural power districts	55,496.81	
Advances by the Province for construction of pipe line to Ontario Power generating station	36,923.85	
Advances by the Province for construction of Queenston-Chippawa development	809,246 02	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex system and Thorold system	481,727 68	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts	661,367 95	
		2,534,095 09
		$19,068,293.89

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1931

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Milton	15,909.84	789.13	286.38	318.20	159.10	1,552.81
Welland	19,617.60	823.94	353.12	392.35	196.18	1,765.59
Totals	35,527.44	1,613.07	639.50	710.55	355.28	3,318.40

NIAGARA RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line together with interest allowed thereon to October 31, 1931

Lines operated by	Period of years ending October 31, 1931	Amount
		$ c.
Milton	18 years	2,633.51
Welland	19 "	9,146.76
Total	....	11,780.27

GEORGIAN BAY

Operating Account for Year

Costs of operation as provided for under the terms of the Power Commission Act

Power purchased		$64,410.77
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation and transmission equipment	$401,005.26	
Rural power districts	37,936.44	
		438,941.70
Interest on capital investment in:		
Generation and transmission equipment	$332,818.63	
Rural power districts	23,837.08	
		356,655.71
Provision for renewal of:		
Generation and transmission equipment	$101,674.16	
Rural power districts	20,126.72	
		121,800.88
Provision for obsolescence and contingencies in respect of:		
Generation and transmission equipment	$27,701.04	
Rural power districts	20,126.72	
		47,827.76
Provision for sinking fund:		
By charges included in the cost of power delivered to municipalities and rural power districts	$69,529.02	
By charges against contracts with private companies which purchase power	8,675.41	
By charges included in the cost of distribution of power within rural power districts	5,584.70	
		83,789.13
		$1,113,425.95

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alliston	......	60.00	89,634.00	198.2	544.71	3,944.10	3,978.34
Arthur	......	75.00	68,531.22	117.2	322.10	3,246.81	3,032.84
Barrie	30.00	32.00	601,078.20	2,277.9	6,260.32	29,603.44	26,706.97
Beaverton	......	37.00	77,957.50	259.0	711.82	4,669.29	3,273.97
Beeton	80.00	75.00	69,707.33	125.0	343.54	3,029.38	3,082.11
Bradford	......	65.00	70,784.50	132.2	363.32	3,315.72	3,137.51
Brechin	50.00	55.00	19,265.77	49.1	134.94	1,214.38	843.52
Cannington	......	40.00	45,855.85	150.4	413.34	2,799.58	2,017.14
Chatsworth	......	45.00	16,019.36	50.3	138.24	909.64	708.85
Chesley	......	43.00	130,467.28	474.3	1,303.51	6,659.51	5,771.34
Coldwater	......	36.00	64,011.24	224.5	616.99	3,151.97	2,840.56
Collingwood	......	40.00	402,808.65	1,340.5	3,684.08	20,382.47	17,675.49
Cookstown	55.00	60.00	19,859.10	48.2	132.47	1,046.49	880.17
Creemore	......	55.00	43,372.41	98.9	271.81	2,141.60	1,801.92
Dundalk	......	37.00	44,686.27	157.2	432.03	2,681.20	1,977.03

SYSTEM

ending October 31st, 1931

Revenue for period

Collected from municipalities	$767,915.89	
Power sold to private companies	111,940.05	
Collected from customers in rural power districts	170,968.00	
		$1,050,823.94
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year	$62,263.91	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied to them in the year	19,333.31	
		81,597.22
		$1,132,421.16
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$14,892.58	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	4,102.63	
		18,995.21
Revenue		$1,113,425.95
		$1,113,425.95

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1931

costs and fixed charges							
Renewals	Obsolescence and contingencies	Sinking fund	Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
						Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,403.35	298.10	941.83	172.98	11,283.41	11,889.50	606.09	....
1,140.50	222.20	720.49	102.29	8,787.23	8,791.22	3.99	....
7,572.26	2,280.72	6,319.51	1,988.06	80,731.28	72,117.51	....	8,613.77
975.36	273.74	778.76	226.05	10,908.99	9,582.97	....	1,326.02
1,143.28	221.72	729.95	109.10	8,659.08	9,482.07	822.99	....
1,155.73	235.63	743.87	115.38	9,067.16	8,594.59	....	472.57
288.84	70.52	202.35	42.85	2,797.40	2,654.47	....	142.93
621.59	170.17	481.29	131.26	6,634.37	6,014.97	....	619.40
221.48	64.12	168.12	43.90	2,254.35	2,261.97	7.62	....
1,677.36	499.18	1,368.84	413.95	17,693.69	20,392.74	2,699.05	....
839.10	249.35	671.69	195.93	8,565.59	8,082.30	....	483.29
5,406.19	1,488.68	4,219.11	1,169.94	54,025.96	53,619.29	....	406.67
302.39	73.53	208.57	42.07	2,685.69	2,855.74	170.05	....
621.14	140.45	428.31	86.32	5,491.55	5,440.83	....	50.72
584.84	170.06	468.90	137.20	6,451.26	5,818.04	....	633.22

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Durham	......	33.00	127,282.22	441.7	1,213.92	7,364.57	5,630.07
Elmvale	36.00	38.00	45,207.81	157.1	431.76	2,865.54	1,986.94
Elmwood	......	48.00	16,205.53	50.8	139.61	1,306.34	718.76
Flesherton	......	43.00	27,399.50	84.5	232.23	1,500.56	1,213.85
Grand Valley	......	58.00	47,653.99	105.6	292.97	2,321.65	2,112.00
Gravenhurst	......	24.00	71,339.54	567.0	....	7,568.17	3,165.86
Hanover	37.00	35.00	261,806.86	1,011.9	2,780.99	12,750.05	11,538.20
Holstein	......	90.00	14,422.27	16.7	45.90	775.66	639.33
Huntsville	27.00	26.00	155,741.88	974.6	....	13,495.51	6,919.15
Kincardine	......	60.00	168,441.89	383.6	1,054.24	7,211.58	7,489.19
Kirkfield	......	60.00	13,331.96	28.2	77.50	530.14	592.35
Lucknow	......	65.00	90,399.75	195.1	536.19	4,225.70	4,021.93
Markdale	......	36.00	40,751.15	143.4	394.10	2,169.40	1,805.58
Meaford	......	40.00	133,525.51	372.4	1,023.46	5,943.64	5,942.27
Midland	25.00	30.00	709,993.93	2,750.4	7,558.89	35,422.12	31,273.30
Mount Forest	......	40.00	120,548.63	332.2	912.98	5,855.88	5,340.09
Muskoka twp	......	......	10,143.94	22.1	60.74	451.08	451.79
Neustadt	......	70.00	31,764.63	36.3	99.76	857.06	1,403.67
Orangeville	......	45.00	185,028.27	518.7	1,425.54	8,480.66	7,971.61
Owen Sound	......	30.00	844,154.41	3,208.8	8,818.70	41,031.45	37,419.77
Paisley	......	58.00	65,899.01	127.2	349.58	2,501.63	2,146.07
Penetanguishene	......	35.00	175,058.08	580.3	1,594.83	8,534.17	7,689.88
Port Elgin	......	40.00	39,013.15	125.8	345.73	2,424.64	1,579.86
Port McNicoll	......	33.00	25,762.11	92.6	254.49	1,347.94	1,141.12
Port Perry	......	50.00	81,716.05	207.2	569.45	3,641.21	3,637.53
Priceville	......	85.00	7,954.70	14.4	39.58	463.82	353.94
Ripley	......	80.00	30,752.13	50.9	139.88	1,434.45	1,365.54
Rosseau	......	127.00	21,844.62	10.7	29.42	651.75	546.60
Shelburne	......	41.00	68,799.35	214.3	588.96	3,988.09	3,040.98
Southampton	......	40.00	48,322.88	175.2	481.50	2,883.48	2,048.51
Stayner	......	44.00	60,715.17	193.1	530.69	3,228.02	2,538.17
Sunderland	......	55.00	26,088.85	60.3	165.72	1,509.15	1,143.75
Tara	80.00	55.00	25,477.42	70.6	194.03	1,303.64	1,122.91
Teeswater	......	58.00	45,167.10	102.5	281.70	2,259.86	2,000.77
Thornton	90.00	85.00	12,015.33	22.4	61.56	774.54	531.87
Tottenham	......	95.00	42,611.53	59.9	164.62	1,846.75	1,891.29
Uxbridge	......	55.00	80,931.52	192.8	529.87	3,336.62	3,601.26
Victoria Harbor	......	40.00	22,695.19	70.2	192.93	1,319.34	1,002.49
Walkerton	......	35.00	85,155.14	319.5	878.08	4,906.63	3,810.08
Waubaushene	40.00	43.00	13,734.28	47.0	129.17	909.19	607.11
Wiarton	......	75.00	54,933.27	104.4	286.92	2,602.29	1,869.20
Windermere	140.00	100.00	21,853.01	29.3	80.52	1,202.15	968.13
Wingham	......	60.00	141,932.57	299.4	822.84	5,932.14	6,291.46
Woodville	......	53.00	23,730.71	56.3	154.73	1,204.05	1,037.44

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,677.74	482.64	1,335.65	385.50	18,090.09	14,576.10	....	3,513.99
594.99	175.12	474.14	137.11	6,665.60	5,909.90	....	755.70
224.30	66.34	170.12	44.34	2,669.81	2,440.40	....	229.41
352.74	100.28	287.63	73.75	3,761.04	3,631.66	....	129.38
743.78	163.80	500.76	93.04	6,228.00	6,180.83	....	47.17
784.63	311.21	751.21	494.86	13,075.94	13,607.00	531.06	....
3,247.81	1,033.35	2,746.22	883.15	34,979.77	35,802.29	822.52	....
255.64	42.30	151.69	14.58	1,925.10	1,498.50	....	426.60
1,986.51	602.97	1,648.78	850.59	25,503.51	25,511.05	7.54	....
2,615.10	563.08	1,769.67	334.79	21,037.65	23,013.50	1,975.85	....
211.70	45.01	140.34	24.61	1,621.65	1,694.00	72.35	....
1,424.64	304.73	949.87	170.28	11,633.34	12,681.47	1,048.13	....
502.13	151.35	427.31	125.15	5,575.02	5,161.80	....	413.22
1,938.77	473.36	1,402.12	325.02	17,048.64	14,895.30	....	2,153.34
8,789.10	2,607.24	7,444.04	2,400.40	95,495.09	80,439.77	....	15,055.32
1,758.22	419.00	1,265.90	289.93	15,842.00	13,289.06	....	2,552.94
158.70	33.99	106.20	19.29	1,281.79	1,301.44	19.65	....
563.96	93.00	334.10	31.68	3,383.23	2,477.37	....	905.86
2,572.36	630.71	1,885.53	452.70	23,419.11	23,340.96	....	78.15
10,573.66	3,141.34	8,853.04	2,800.52	112,638.48	96,263.10	....	16,375.38
715.72	167.55	507.08	111.02	6,498.65	7,376.59	877.94	....
2,359.55	641.05	1,836.58	506.46	23,162.52	20,308.81	....	2,853.71
458.88	133.75	370.43	109.79	5,423.08	5,030.64	....	392.44
333.19	100.16	270.25	80.82	3,527.97	3,054.38	....	473.59
1,227.66	275.93	858.55	180.84	10,391.17	10,357.85	....	33.32
130.78	35.36	83.61	12.57	1,119.66	1,220.43	100.77	....
515.02	97.42	323.28	44.42	3,920.01	4,067.97	147.96	....
222.60	37.29	128.16	9.34	1,625.16	1,356.63	....	268.53
953.78	259.38	721.62	187.03	9,739.84	8,785.17	....	954.67
571.50	176.84	480.31	152.91	6,795.05	7,006.97	211.92	....
768.70	216.22	602.47	168.53	8,052.80	8,497.58	444.78	....
403.30	88.89	274.09	52.63	3,637.53	3,315.07	....	322.46
370.70	97.64	267.47	61.62	3,418.01	4,202.31	784.30	....
701.93	173.26	474.53	89.46	5,981.51	5,945.92	....	35.59
196.25	43.48	126.27	19.55	1,753.52	1,921.37	167.85	....
734.56	132.82	448.09	52.28	5,270.41	5,751.20	480.79	....
1,240.22	274.70	850.40	168.27	10,001.34	10,601.19	599.85	....
315.93	86.03	238.23	61.27	3,216.22	2,807.96	....	408.26
1,004.12	324.02	893.34	278.85	12,095.12	11,183.64	....	911.48
182.33	56.03	144.13	41.02	2,068.98	1,999.50	....	69.48
629.36	138.43	438.27	91.12	6,055.59	7,833.12	1,777.53	....
374.37	73.59	227.11	25.57	2,951.44	3,032.46	81.02	....
2,248.56	484.25	1,490.47	261.30	17,531.02	17,962.00	430.98	....
363.99	80.11	249.29	49.14	3,138.75	2,983.42	....	155.33

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost of

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
RURAL POWER DISTRICT	$ c.		$ c.	$ c.	$ c.
Alliston R.P.D.—Tossorontio, Essa, and Tecumseth twps.	27,566.18	73.2	201.17	1,192.44	1,230.04
Arthur R.P.D.—Luther E. and Luther W. twps.	1,296.40	2.9	7.97	56.43	58.03
Bala R.P.D.—Wood and Medora twps.	16,060.80	60.8	167.10	807.11	717.19
Barrie R.P.D.—Vespra, Oro and Innisfil twps.	70,809.13	208.3	572.48	3,480.69	2,997.14
Beaumaris R.P.D.—Wood, Medora, Mouck and Macaulay twps.	38,233.71	123.8	340.24	2,291.54	1,690.71
Beaverton R.P.D.—Mara and Thorah twps.	2,429.71	6.0	16.49	143.28	108.80
Bradford R.P.D.—King, Tecumseh and Gwillimbury W. twps.	3,212.63	6.0	16.49	135.58	143.79
Bruce R.P.D.—Saugeen, Greenock, Carrick and Brant twps.	5,544.70	4.2	11.54	180.66	65.71
Buckskin R.P.D.—Matchedash, Wood and Medora twps.	6,069.16	15.8	43.42	280.61	270.68
Cannington No. 1 R.P.D.—Brock, Eldon and Mariposa twps.	5,684.57	17.2	47.27	285.07	250.54
Cannington No. 2 R.P.D.—Brock twp.	7,145.23	22.0	60.46	371.63	314.66
Chatsworth R.P.D.—Holland twp.	4,158.95	9.7	26.66	210.60	185.86
Cookstown R.P.D.—Essa and Innisfil twps.	288.43	0.7	1.92	13.58	12.94
Creemore R.P.D.—Nottawasaga and and Osprey twps.	6,145.14	19.5	53.59	291.43	260.09
Elmvale R.P.D.—Flos, Medonte, Vespra and Oro twps.	19,776.58	60.3	165.72	1,107.11	877.25
Flesherton R.P.D.—Artemesia twp.	1,895.23	4.9	13.47	197.46	83.33
Georgina R.P.D.—Georgina and Brock twps.	12,195.58	39.4	108.28	827.98	516.28
Hawkestone R.P.D.—Oro and Orillia twps.	613.46	....	1,028.94	49.11	27.14
Huntsville R.P.D.—Franklin, Bruuel and Chaffey twps.	5,257.64	10.7	29.42	241.51	162.46
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps.	57,611.04	136.2	374.32	2,508.98	2,573.77
Mariposa R.P.D.—Reach, Mariposa and Brock twps.	43,588.13	131.0	360.03	2,005.97	1,932.78
Markdale R.P.D.—Artemesia and Glenelg twps.	393.26	1.6	4.40	20.01	16.33
Medonte R.P.D.—Tay twp.	2,103.97	7.2	19.79	128.82	94.09
Midland R.P.D.—Tiny and Tay twps.	4,660.12	18.3	50.29	283.04	208.37
Nottawasaga R.P.D.—Nottawasaga twp.	8,862.92	27.9	76.68	530.91	387.47

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
406.07	96.26	288.75	63.89	3,478.62	3,478.62	see page	219
20.23	4.47	13.62	2.53	163.28	163.28	"	"
197.20	61.54	168.48	53.06	2,171.68	2,171.68	"	"
934.12	266.86	705.13	181.80	9,138.22	9,138.22	"	"
514.83	154.29	397.84	108.05	5,497.50	5,497.50	"	"
36.81	8.81	25.53	5.24	344.96	344.96	"	"
52.45	10.69	33.76	5.24	398.00	398.00	"	"
21.03	5.36	15.41	3.65	303.36	303.36	"	"
90.34	26.10	63.74	13.79	788.68	788.68	"	"
79.89	20.56	59.68	15.01	758.02	758.02	"	"
99.68	26.08	75.01	19.20	966.72	966.72	"	"
64.11	17.86	43.68	8.47	557.24	557.24	"	"
4.40	1.07	3.03	0.61	37.55	37.55	"	"
77.89	21.87	60.98	17.02	782.87	782.87	"	"
274.43	80.33	206.24	52.63	2,763.71	2,763.71	"	"
26.59	7.35	19.91	4.28	352.39	352.39	"	"
155.10	43.32	122.01	34.39	1,807.36	1,807.36	"	"
12.27	3.07	6.46	....	1,126.99	1,126.99	"	"
51.54	13.89	38.09	9.34	546.25	546.25	"	"
884.39	208.40	605.11	118.87	7,273.84	7,273.84	"	"
614.36	158.33	457.61	114.33	5,643.41	5,643.41	"	"
4.38	1.53	4.12	1.40	52.17	52.17	"	"
27.93	8.57	22.08	6.28	307.56	307.56	"	"
57.20	17.12	48.86	15.97	680.85	680.85	"	"
122.11	33.38	92.86	24.35	1,267.76	1,267.76	"	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost of

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Orangeville R.P.D.—Garafraxa E., Amaranth and Erin twps..........	10,238.60	26.5	72.83	458.89	441.93
Owen Sound R.P.D.—Derby twp....	1,078.61	4.1	11.27	51.68	48.26
Port Perry R.P.D.—Reach, Cartwright, Scugog and Manvers twps...	36,917.90	92.0	252.84	1,748.56	1,649.48
Ripley R.P.D.—Huron and Kinloss twps..........................	4,396.05	9.6	26.38	196.83	196.88
Sauble R.P.D.—Amabel and Keppel twps..........................	422.60	0.7	1.92	15.16	13.98
Shelburne R.P.D.—Mulmur, Melancthon and Amaranth twps.....	3,546.92	7.9	21.72	180.00	153.10
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps.	23,810.44	90.8	249.54	1,090.93	1,034.43
Tara R.P.D.—Derby, Keppel, Amabel and Arran twps..................	17,000.02	45.6	125.32	888.54	752.65
Thornton R.P.D.—Essa twp........	6,029.64	10.5	28.86	353.37	270.15
Utterson R.P.D.—Stephenson, Wood, Medora and Watt twps...........	16,511.11	32.2	88.49	679.72	731.91
Uxbridge R.P.D.—Uxbridge, Scott, Georgina, Reach and Brock twps...	37,775.87	89.3	245.42	1,591.85	1,688.12
Walkerton Quarry R.P.D.—Brant twp............................	655.88	1.5	4.12	24.72	28.41
Wasaga Beach R.P.D.—Nottawasaga, Sunnidale and Flos twps...........	41,357.91	126.0	346.28	1,942.47	1,748.93
Wroxeter R.P.D.—Howick, Turnberry and Morris twps.................	46,303.58	91.6	251.74	1,993.50	2,070.85
Totals—Municipalities..............	6,101,345 52	20,331.3	51,639.50	311,127.89	267,329.43
Totals—Rural Power Districts.......	597,647.80	1,635.9	5,524.87	28,857.77	26,014.53
Totals—Companies and Distributing Systems.......................	856,443.92	2,636.7	7,246.40	61,019.60	39,474.67
	7,555,437.24				
Non-operating capital...............	9,558.06				
Grand Totals..................	7,564,995.30	24,603.9	64,410.77	401,005.26	332,818.63

SYSTEM *G.B.—COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1931

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
146.51	36.01	104.27	23.13	1,283.57	1,283.57	see page	219
13.52	4.01	11.32	3.58	143.64	143.64	"	"
557.79	125.69	387.89	80.29	4,802.54	4,802.54	see page	221
69.05	14.86	46.19	8.38	558.57	558.57	"	"
4.87	1.06	3.28	0.61	40.88	40.88	"	"
53.36	13.57	36.19	6.89	464.83	464.83	"	"
288.04	92.20	244.64	79.25	3,079.03	3,079.03	"	"
248.23	68.44	177.39	39.80	2,300.37	2,300.37	"	"
99.94	22.37	63.37	9.16	847.22	847.22	"	"
263.56	59.80	171.74	28.10	2,023.32	2,023.32	"	"
580.25	128.69	396.95	77.94	4,709.22	4,709.22	"	"
10.20	2.71	6.90	1.31	78.37	78.37	"	"
542.44	151.30	414.63	109.97	5,256.02	5,256.02	"	"
745.54	162.55	486.33	79.94	5,790.45	5,790.45	"	"
81,952.89	22,093.19	63,399.94	17,744.38	815,287.22	767,915.89	14,892.58	62,263.91
8,452.65	2,180.37	6,129.08	1,427.75	78,587.02	78,587.02	....	....
11,268.62	3,427.48	8,675.41	(19,172.13)	111,940.05	111,940.05	....	....
101,674.16	27,701.04	78,204.43	....	1,005,814.29	958,442.96	....	....

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Alliston R.P.D.—Tossorontio, Essa and Tecumseth twps	36,982.41	18,239.92	18,742.49	3,478.62
Arthur R.P.D.—Luther E. and Luther W. twps	*4,293.01	2,089.05	2,203.96	163.28
Bala R.P.D.—Wood and Medora twps	*50,977.39	24,603.30	26,374.09	2,171.68
Barrie R.P.D.—Vespra, Oro and Innisfil twps	109,435.93	54,717.97	54,717.96	9,138.22
Beaumaris R.P.D.—Wood, Medora, Monck and Macaulay twps	57,146.47	28,573.23	28,573.24	5,497.50
Beaverton R.P.D.—Mara and Thorah twps	*11,394.70	5,603.96	5,790.74	344.96
Beeton R.P.D.—Tecumseh twp	565.92	282.96	282.96	....
Bradford R.P.D.—King, Tecumseth and Gwillimbury W. twps	17,165.73	8,582.87	8,582.86	398.00
Bruce R.P.D.—Saugeen, Greenock, Carrick and Brant twps	35,077.66	14,994.06	20,083.60	303.36
Buckskin R.P.D.—Matchedash, Wood and Medora twps	3,494.08	1,747.04	1,747.04	788.68
Cannington No. 1, R.P.D.—Brock, Eldon and Mariposa twps	*7,367.41	3,063.85	4,303.56	758.02
Cannington No. 2, R.P.D.—Brock twp	*11,586.18	4,797.01	6,789.17	966.72
Chatsworth R.P.D.—Holland twp	1,426.70	713.35	713.35	557.24
Cookstown R.P.D.—Essa and Innisfil twps	702.77	351.39	351.38	37.55
Creemore R.P.D.—Nottawasaga and Osprey twps	*23,895.46	11,574 19	12,321.27	782.87
Elmvale R.P.D.—Flos. Medonte, Vespra and Oro twps	39,153.86	19,444.61	19,709.25	2,763.71
Flesherton R.P.D.—Artemesia twp	2,919.21	1,459.60	1,459.61	352.39
Georgina R.P.D.—Georgina and Brock twps	21,219.82	10,609.91	10,609.91	1,807.36
Hawkstone R.P.D.—Oro and Orillia twps	40,051.18	20,025.59	20,025.59	1,126.99
Holstein R.P.D.—Egremont and Bentinck twps	1,515.14	757.57	757.57	....
Huntsville R.P.D.—Franklin, Brunel and Chaffey twps	32,738.02	16,369.01	16,369.01	546.25
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps	64,521.65	32,260.83	32,260.82	7,273.84
Lucknow R.P.D.—Kinloss twp	615.03	307.51	307.52	....
Mariposa R.P.D.—Reach, Mariposa and Brock twps	74,306.76	37,153.38	37,153.38	5,643.41
Markdale R.P.D.—Artemesia and Glenelg twps	*1,836.56	838.90	997.66	52.17
Meaford R.P.D.—St. Vincent twp	1,274.10	637.05	637.05	....
Medonte R.P.D.—Tay twp	16,723.14	8,361.57	8,361.57	307.56
Midland R.P.D.—Tiny and Tay twp	15,532.57	7,766.29	7,766.28	680.85
Neustadt R.P.D.—Bentinck twp	986.17	493.09	493.08	....
Nottawasaga R.P.D.—Nottawasaga twp	16,425.56	8,212.78	8,212.78	1,267.76
Orangeville R.P.D.—Garafraxa E., Amaranth and Erin twps	29,792.34	14,896.17	14,896.17	1,283.57
Owen Sound R.P.D.—Derby twp	2,414.26	1,207.13	1,207.13	143.64

NOTE.—Items marked * include portions of transmission lines of system aggregating $11,495.61 used for purposes of rural power districts.

RURAL POWER DISTRICTS *G.B.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1931.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
959.79	823.48	723.39	723.39	193.08	6,901.75	7,867.21	965.46	....
110.95	92.82	80.38	80.38	21.76	549.57	489.06	....	60.51
3,954.48	1,118.44	960.74	960.74	262.23	9,428.31	7,780.28	....	1,648.03
3,310.15	2,119.59	1,887.84	1,887.84	496.98	18,840.62	16,844.65	....	1,995.97
2,350.04	1,145.35	1,020.12	1,020.12	268.55	11,301.68	9,997.87	....	1,303.81
225.52	210.14	183.43	183.43	49.27	1,196.75	751.26	....	445.49
2.86	12.64	11.32	11.32	2.98	41.12	41.12	....	....
129.47	91.79	81.75	81.75	21.52	804.28	659.86	....	144.42
280.95	75.13	50.12	50.12	13.24	772.92	994.67	221.75	....
102.71	78.46	69.88	69.88	18.40	1,128.01	1,031.04	....	96.97
222.09	188.19	142.94	142.94	44.13	1,498.31	1,602.91	104.60	....
531.30	303.42	230.40	230.40	71.14	2,333.38	2,436.90	103.52	....
107.84	31.70	28.23	28.23	7.43	760.67	865.98	105.31	....
20.08	14.39	12.82	12.82	3.37	101.03	110.44	9.41	....
590.01	504.43	434.43	434.43	118.27	2,864.44	2,092.72	....	771.72
1,065.46	851.02	752.67	752.67	199.54	6,385.07	6,204.64	....	180.43
114.05	64.75	57.67	57.67	15.18	661.71	506.65	....	155.06
963.11	442.70	394.30	394.30	103.80	4,105.57	3,782.33	....	323.24
1,224.50	868.20	773.27	773.27	203.56	4,969.79	3,970.27	....	999.52
4.84	15.79	14.07	14.07	3.70	52.47	52.47	....	....
390.79	183.66	163.58	163.58	43.06	1,490.92	753.35	....	737.57
2,276.76	1,321.65	1,177.15	1,177.15	309.88	13,536.43	12,269.37	....	1,267.06
3.88	13.72	12.30	12.30	3.24	45.44	45.44	....	....
2,716.06	1,588.79	1,415.08	1,415.08	372.52	13,150.94	13,578.18	427.24	....
88.84	42.47	34.67	34.67	9.96	262.78	228.01	....	34.77
11.98	28.54	25.48	25.48	6.71	98.19	98.19	....	....
269.39	187.88	167.34	167.34	44.05	1,143.56	931.70	....	211.86
408.31	396.78	353.40	353.40	93.03	2,285.77	1,671.26	....	614.51
5.17	19.38	17.31	17.31	4.56	63.73	63.73	....	....
382.73	368.10	327.85	327.85	86.31	2,760.60	2,980.72	220.12	....
458.31	632.28	563.15	563.15	148.25	3,648.71	2,819.10	....	829.61
186.94	35.64	31.74	31.74	8.36	438.06	426.20	....	11.86

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Port Perry R.P.D.—Reach, Cartwright, Scugog and Manvers twps	69,948.25	34,974.12	34,974.13	4,802.54
Ripley R.P.D.—Huron and Kinloss twps	*7,621.75	3,577.41	4,044.34	558.57
Sauble R.P.D.—Amabel and Keppel twps	4,336.00	2,168.00	2,168.00	40.88
Shelburne R.P.D.—Mulmur, Melancthon and Amaranth twps	*11,201.55	5,157.20	6,044.35	464.83
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps	64,673.20	32,336.60	32,336.60	3,079.03
Tara R.P.D.—Derby, Keppel, Amabel and Arran twps	*31,610.44	14,272 67	17,337.77	2,300.37
Thornton R.P.D.—Essa twp	9,463.02	4,731.51	4,731.51	847.22
Utterson R.P.D.—Stephenson, Wood, Medora and Watt twps	*33,862.02	16,431.40	17,430.62	2,023.32
Uxbridge R.P.D.—Uxbridge, Scott, Georgina, Reach and Brock twps	82,475.33	41,237.66	41,237.67	4,709.22
Walkerton Quarry R.P.D.—Brant twp	....	....	....	78.37
Wasaga Beach R.P.D.—Nottawasaga, Sunnidale and Flos twps	46,940.67	....	46,940.67	5,256.02
Wroxeter R.P.D.—Howick, Turnberry and Morris twps	73,559.45	35,464.85	38,094.60	5,790.45
	1,169,228.87	551,086.56	618,142.31	
Non-operating capital	35,000.84	17,500.42	17,500.42	
Totals	1,204,229.71	568,586.98	635,642.73	78,587.02

NOTE.—Items marked * include portions of transmission lines of system aggregating $11,495.61 used for purposes of rural power districts.

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1931, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alliston	June, 1918	985.87	....	....	985.87
Arthur	Dec., 1916	559.61	....	....	559.61
Barrie	April, 1913	....	2,952.16	....	....
Beaverton	Nov., 1914	897.36	....	....	897.36
Beeton	Aug., 1918	1,493.77	....	....	1,493.77
Bradford	Oct., 1918	139.89	....	....	139.89
Brechin	Jan., 1915	....	94.23	94.23	....
Cannington	Nov., 1914	595.27	....	....	595.27
Chatsworth	Dec., 1915	5.15	....	....	5.15
Chesley	July, 1916	1,324.24	....	....	1,324.24

RURAL POWER DISTRICTS *G.B.—RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1931.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,803.76	1,536.50	1,368.50	1,368.50	360.26	11,240.06	10,341.13	....	898.93
87.43	156.92	130.43	130.43	36.80	1,100.58	628.41	....	472.17
80.05	8.11	7.22	7.22	1.90	145.38	302.36	156.98	....
291.37	246.98	202.36	202.36	57.91	1,465.81	1,117.23	....	348.58
1,816.30	1,231.19	1,096.58	1,096.58	288.67	8,608.35	7,584.50	....	1,023.85
1,654.04	775.38	629.30	629.30	181.80	6,170.19	5,629.39	....	540.80
156.91	212.30	189.09	189.09	49.78	1,644.39	1,385.56	....	258.83
1,065.09	629.38	541.46	541.46	147.56	4,948.27	4,812.02	....	136.25
1,952.96	1,766.04	1,572.95	1,572.95	414.08	11,988.20	9,529.15	....	2,459.05
56.85	23.53	20.96	20.96	5.52	206.19	252.31	46.12	....
2,845.02	1,777.82	791.73	791.73	416.84	11,879.16	13,621.28	1,742.12	....
2,657.30	1,601.61	1,377.32	1,377.32	375.52	13,179.52	11,817.08	....	1,362.44
37,936.44	23,837.08	20,126.72	20,126.72	5,584.70	186,198.68	170,968.00	4,102.63	19,333.31

Net debit.. $15,230.68

SYSTEM *G.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1930; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19.65	....	605.09	....	625.74	....
11.04	....	3.99	....	15.03	....
....	113.09	....	8,613.77	....	11,684.02
15.83	....	....	1,326.02	....	1,310.19
29.14	....	822 99	....	852.13	....
2.64	....	....	472.57	....	469.93
....	2.01	....	142.93	....	144.94
13.04	....	....	619.40	....	606.36
0.09	....	7.62	....	7.71	....
26.27	....	2,699.05	....	2 725.32	....

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1931, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Coldwater	Mar., 1913	864.54			864.54
Collingwood	Mar., 1913	1,083.61			1,083.61
Cookstown	May, 1918		113.85	113.85	
Creemore	Nov., 1914	438.29			438.29
Dundalk	Dec., 1915	456.25			456.25
Durham	Dec., 1915		109.44	109.44	
Elmvale	June, 1913		251.63	251.63	
Elmwood	April, 1918	115.56			115.56
Flesherton	Dec., 1915	285.91			285.91
Grand Valley	Dec., 1916	479.58			479.58
Gravenhurst	Nov., 1915	1,825.32			1,825.32
Hanover	Sept., 1916	3,216.31			3,216.31
Holstein	May, 1916		3,469.79	970.00	
Huntsville	Sept., 1916	3,894.54			3,894.54
Kincardine	Mar., 1921	2,454.45			2,454.45
Kirkfield	June, 1920	327.38			327.38
Lucknow	Jan., 1921	1,013.77			1,013.77
Markdale	Mar., 1916	116.09			116.09
Meaford	Jan., 1924	303.40			303.40
Midland	July, 1911		9,006.18	9,006.18	
Mount Forest	Dec., 1915	575.87			575.87
Muskoka township	June, 1929	248.05			
Neustadt	Dec. 1918		2,025.97		
Orangeville	July, 1916	2,626.94			2,626.94
Owen Sound	Dec., 1915		196.73	196.73	
Paisley	Sept., 1923	770.46			770.46
Penetanguishene	July, 1911	985.84			985.84
Port Elgin	Mar., 1931				
Port McNicoll	Jan., 1915	62.64			62.64
Port Perry	Sept., 1922	687.53			687.53
Priceville	Mar., 1920		43.24		
Ripley	Jan., 1921		19.84	19.84	
Rosseau	July, 1931				
Shelburne	July, 1916	360.11			360.11
Southampton	Feb., 1931				
Stayner	Oct., 1913	446.70			446.70
Sunderland	Nov., 1914	360.80			360.80
Tara	Feb., 1918		50.38	50.38	
Teeswater	Dec., 1920	10.44			10.44
Thornton	Nov., 1918	493.46			493.46
Tottenham	Oct., 1918		395.22	53.56	
Uxbridge	Sept., 1922	939.63			939.63
Victoria Harbour	July, 1914	1.75			1.75
Walkerton	Feb., 1931				
Waubaushene	Dec., 1914		66.97	66.97	

supplied to it to October 31, 1930; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
18.06			483.29		465.23
21.49			406.67		385.18
	2.19	170.05		167.86	
8.70			50.72		42.02
9.05			633.22		624.17
	2.31		3,513.99		3,516.30
	4.80		755.70		760.50
1.92			229.41		227.49
5.45			129.38		123.93
9.53			47.17		37.64
30.41		531.06		561.47	
64.34		822.52		886.86	
	126.51		426.60		3,052.90
88.74		7.54		96.28	
55.77		1,975.85		2,031.62	
5.45		72.35		77.80	
16.89		1,048.13		1,065.02	
2.51			413.22		410.71
6.02			2,153.34		2,147.32
	182.59		15,055.32		15,237.91
11.36			2,552.94		2,541.58
9.92		19.65		277.62	
	81.04		905.86		3,012.87
53.39			78.15		24.76
	3.54		16,375.38		16,378.92
13.57		877.94		891.51	
14.85			2,853.71		2,838.86
			392.44		392.44
1.04			473.59		472.55
13.64			33.32		19.68
	1.73	100.77		55.80	
	0.35	147.96		147.61	
			268.53		268.53
7.02			954.67		947.65
		211.92		211.92	
8.47		444.78		453.25	
6.34			322.46		316.12
	0.89	784.30		783.41	
0.20			35.59		35.39
8.22		167.85		176.07	
	14.68	480.79		124.45	
17.22		599.85		617.07	
0.03			408.26		408.23
			911.48		911.48
	1.42		69.48		70.90

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1931, and the accumulated amount standing as

Municipality or Rural Power District	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Wiarton	May, 1931				
Windermere	June, 1930	631.49			631.49
Wingham	Dec., 1920	780.25			780.25
Woodville	Nov., 1914	371.47			371.47
RURAL POWER DISTRICTS*					
Alliston R.P.D	Nov., 1929	170.24			
Arthur R.P.D	Dec., 1929	18.57			
Bala R.P.D	Jan., 1930	127.08			
Barrie R.P.D	Aug., 1923	874.51			
Beaumaris R.P.D	June, 1928		519.50		
Beaverton R.P.D	Aug., 1930		120.57		
Bradford R.P.D	Aug., 1929		94.28		
Bruce R.P.D	Oct., 1931				
Buckskin R.P.D	July, 1928		505.43		
Cannington No. 1, R.P.D	May, 1924	751.23			
Cannington No. 2, R.P.D	May, 1924	958.21			
Chatsworth R.P.D	Dec., 1928	228.16			
Cookston R.P.D	Dec., 1930				
Creemore R.P.D	Dec., 1930				
Elmvale R.P.D	Jan., 1924		20.70		
Flesherton R.P.D	Feb., 1922		416.52		
Georgina R.P.D	Oct., 1926		719.91		
Hawkestone R.P.D	Aug., 1930		717.44		
Huntsville R.P.D	Aug., 1931				
Innisfil R.P.D	Feb., 1928		511.25		188.26
Mariposa R.P.D	Sept., 1923	3,590.70			
Markdale R.P.D	July, 1924		420.94		
Medonte R.P.D	July, 1930		24.61		
Midland R.P.D	Nov., 1930				
Nottawasaga R.P.D	Jan., 1922	835.01			
Orangeville R.P.D	Aug., 1927		1,514.41		
Owen Sound R.P.D	Mar., 1931				
Port Perry R.P.D	Dec., 1922		1,212.78		
Ripley R.P.D	Nov., 1930				
Sauble R.P.D	Oct., 1931				
Shelburne R.P.D	Feb., 1926		161.23		
Sparrow Lake R.P.D	Oct., 1925	3,143.17			
Tara R.P.D	Jan., 1925	948.70			
Thornton R.P.D	Aug., 1930		109.07		
Utterson R.P.D	June, 1930		532.30		
Uxbridge R.P.D	Sept., 1925		1,804.38		
Walkerton Quarry R.P.D	Feb., 1922	12.54			
Wasaga Beach R.P.D	July, 1923	6,686.48			
Wroxeter R.P.D	Feb., 1929		692.09		
Totals		51,574.19	28,893.04	10,932.81	33,169.80

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *G.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1930; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
		1,777.53		1,777.53	
12.59		81.02		93.61	
15.39		430.98		446.37	
7.43			155.33		147.90
6.81		965.46		1,142.51	
0.74			60.51		41.20
5.08			1,648.03		1,515.87
34.98			1,995.97		1,086.48
	20.78		1,303.81		1,844.09
	4.82		445.49		570.88
	3.77		144.42		242.47
		221.75		221.75	
	20.22		96.97		622.62
30.05		104.60		885.88	
38.33		103.52		1,100.06	
9.13		105.31		342.60	
		9.41		9.41	
			771.72		771.72
	0.83		180.43		201.96
	16.66		155.06		588.24
	28.80		323.24		1,071.95
	28.70		999.52		1,745.66
			737.57		737.57
	27.36		1,267.06		1,993.93
143.63		427.24		4,161.57	
	16.84		34.77		472.55
	0.98		211.86		237.45
			614.51		614.51
33.40		220.12		1,088.53	
	60.58		829.61		2,404.60
			11.86		11.86
	48.51		898.93		2,160.22
			472.17		472.17
		156.98		156.98	
	6.45		348.58		516.26
125.73			1,023.85	2,245.05	
37.95			540.80	445.85	
	4.36		258.83		372.26
	21.29		136.25		689.84
	72.18		2,459.05		4,335.61
0.50		46.12		59.16	
267.46		1,742.12		8,696.06	
	27.68		1,362.44		2,082.21
1,396.50	952.96	18,995.21	81,597.22	35,724.47	97,438.78

GEORGIAN BAY SYSTEM

Reserve for Renewals, October 31, 1931

Total provision for renewals to October 31 1930	$1,100,256.29	
Deduct:		
Expenditures to October 31, 1930	94,561.27	
Balance brought forward October 31, 1930		$1,005,695.02
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$90,405.54	
Amount included in costs of distribution of power within rural power districts	20,126.72	
Provision against equipment employed in respect of contracts with private companies which purchased power and against equipment in local distribution systems	11,268.62	
Provision for renewals on equipment transferred from Niagara System	2,628.23	
Provision for renewals on transmission lines purchased	902.00	
Interest at 4% per annum on monthly balances at the credit of the account	40,369.01	
		165,700.12
		$1,171,395.14
Deduct:		
Expenditures during the year ending October 31, 1931		19,820.56
Balance carried forward October 31, 1931		$1,151,574.58

GEORGIAN BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1931

Balance brought forward October 31, 1930		$288,862.02
Amount provided on transfer of Walkerton and Saugeen properties		305.61
		$289,167.63
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$24,273.56	
Amounts included in the costs of distribution of power within rural power districts	20,126.72	
Provision against equipment employed in respect of contracts with private companies which purchased power and against local distribution systems	3,427.48	
Interest at 4% per annum on monthly balances at the credit of the account	11,566.71	
		59,394.47
		$348,562.10
Deduct:		
Contingencies met with during the year ending October 31, 1931		5,250.23
Balance carried forward October 31, 1931		$343,311.87

GEORGIAN BAY SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1931

Municipality	Period of years ending Oct. 31, 1931	Amount	Municipality	Period of years ending Oct. 31, 1931	Amount
		$ c.			$ c.
Alliston	8 years	8,470.85	Walkerton	1 years	1,019.52
Arthur	10 “	8,504.07	Waubaushene	12 “	1,630.42
Barrie	13 “	54,684.26	Wiarton	1 “	479.50
Beaverton	12 “	10,046.41	Windermere	2 “	332.36
Beeton	8 “	6,788.11	Wingham	7 “	14,243.23
Bradford	8 “	7,573.67	Woodville	12 “	5,253.44
Brechin	12 “	3,991.90	RURAL POWER DISTRICTS*		
Cannington	12 “	7,411.17	**Alliston** R.P.D.	2 years	801.42
Chatsworth	11 “	1,766.28	**Arthur** R.P.D	2 “	48.84
Chesley	10 “	14,455.87	**Bala** R.P.D	2 “	723.15
Coldwater	13 “	5,434.63	**Barrie** R.P.D	9 “	3,258.99
Collingwood	13 “	66,381.32	**Beaumaris** R.P.D	4 “	1,888.95
Cookstown	8 “	2,042.48	**Beaverton** R.P.D	2 “	89.80
Creemore	12 “	5,263.04	**Beeton** R.P.D	6 “	16.83
Dundalk	11 “	4,939.81	**Bradford** R.P.D	3 “	94.77
Durham	11 “	14,351.11	**Bruce** R.P.D.	1 “	30.31
Elmvale	13 “	7,351.15	**Buckskin** R.P.D	4 “	316.97
Elmwood	8 “	1,499.85	**Cannington No. 1,** R.P.D.	8 “	880.30
Flesherton	11 “	2,809.55	**Cannington No. 2,** R.P.D.	8 “	1,172.61
Grand Valley	10 “	5,128.94	**Chatsworth** R.P.D	3 “	141.95
Gravenhurst	11 “	8,321.62	**Cookstown** R.P.D	1 “	6.68
Hanover	10 “	36,844.73	**Creemore** R.P.D	1 “	186.95
Holstein	10 “	1,634.80	**Elmvale** R.P.D	8 “	884.99
Huntsville	10 “	23,842.16	**Flesherton** R.P.D	10 “	340.75
Kincardine	7 “	13,214.57	**Georgina** R.P.D.	6 “	1,031.17
Kirkfield	7 “	1,349.31	**Hawkestone** R.P.D	2 “	289.49
Lucknow	7 “	6,676.63	**Holstein** R.P.D	3 “	5.06
Markdale	10 “	3,751.29	**Huntsville** R.P.D.	1 “	85.38
Meaford	7 “	8,843.78	**Innisfil** R.P.D	4 “	2,324.01
Midland	13 “	100,398.65	**Lucknow** R.P.D	6 “	20.94
Mount Forest	11 “	12,785.56	**Mariposa** R.P.D	9 “	4,537.92
Muskoka twp	3 “	331.83	**Markdale** R.P.D	8 “	255.21
Neustadt	8 “	4,457.46	**Meaford** R.P.D	3 “	20.42
Orangeville	10 “	15,643.23	**Medonte** R.P.D	2 “	82.19
Owen Sound	11 “	75,492.46	**Midland** R.P.D	1 “	149 12
Paisley	7 “	3,771.93	**Neustadt** R.P.D	5 “	16.44
Penetanguishene	15 “	29,708 19	**Nottawasaga** R.P.D	10 “	1,848.82
Port Elgin	1 “	420.11	**Orangeville** R.P.D	5 “	804.58
Port McNicoll	12 “	2,526.85	**Owen Sound**	1 “	21.30
Port Perry	7 “	5,610.51	**Port Perry** R.P.D	9 “	1,723.46
Priceville	7 “	602.49	**Ripley** R.P.D	6 “	105.28
Ripley	7 “	2,905.55	**Sauble** R.P.D.	1 “	5.46
Rosseau	1 “	132.39	**Shelburne** R.P.D	6 “	334.04
Shelburne	10 “	7,899.82	**Sparrow Lake** R.P.D	7 “	2,293.99
Southampton	1 “	549.50	**Tara** R.P.D	7 “	1,134.61
Stayner	13 “	6,733.95	**Thornton** R.P.D	2 “	141.85
Sunderland	12 “	5,175.44	**Utterson** R.P.D	2 “	435.47
Tara	8 “	3,742.57	**Uxbridge** R.P.D	7 “	1,785.91
Teeswater	7 “	4,979.46	**Walkerton Quarry** R.P.D.	10 “	211.57
Thornton	8 “	1,420.55	**Wasaga** R.P.D	9 “	4,638.47
Tottenham	8 “	4,296.54	**Wroxeter** R.P.D	3 “	1,543.38
Uxbridge	7 “	5,897.48			
Victoria Harbour	12 “	2.883 39			701,427 54

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*For townships included in rural power districts see “Cost of Power” and “Rural Operating” statements preceding.

GEORGIAN BAY SYSTEM

Reserve for Sinking Fund—October 31, 1931

Total provision for sinking fund to October 31, 1930		$593,883.09
Provided in the year ending October 31, 1931:		
By charges included in the cost of power delivered to municipalities and rural power districts	$69,529.02	
By charges included in the costs of distribution of power within rural power districts	5,584.70	
By charges against contracts with private companies which purchased power and local distribution systems	8,675.41	
Interest at 4% per annum on the amount standing at the credit of the account	23,755.32	
		107,544.45
		$701,427.54

GEORGIAN BAY RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1931

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Brechin.......	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton.....	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals....	2,807.43	153.99	50.54	56.15	28.07	288.75

GEORGIAN BAY RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1931

Lines operated by	Period of years ending October 31, 1931	Amount
		$ c.
Brechin...	13 years	249.57
Flesherton..	14 "	437.66
Total....................................	....	687 23

GEORGIAN BAY RURAL LINES

Reserve for Sinking Fund—October 31, 1931

Total provision for sinking fund to October 31, 1930..............................		$612.20
Provided in year ending October 31, 1931:		
By charges against municipalities which operate the lines...........	$50.54	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts..	24.49	
		75.03
Total..		$687.23

EASTERN ONTARIO

Operating Account for Year

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased		$637,903.94
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation, transmission and distribution equipment	$879,182.99	
Rural power districts	102,331.89	981,514.88
Interest on capital investment in:		
Generation, transmission and distribution equipment	$881,539.94	
Rural power districts	57,205.62	938,745.56
Provision for renewals of:		
Generation, transmission and distribution equipment	$192,246.96	
Rural power districts	48,946.74	241,193.70
Provision for obsolescence and contingencies in respect of:		
Generation, transmission and distribution equipment	$86,194.85	
Rural power districts	24,473.37	110,668.22
Provision for sinking funds:		
By charges included in the cost of power delivered to municipalities and rural power districts	$94,291.31	
By charges against contracts with private companies which purchase power and local distribution systems	59,879.84	
By charges included in the cost of distribution of power within rural power districts	13,101.69	167,272.84
		$3,077,299.14

SYSTEM

ending October 31, 1931

REVENUE FOR PERIOD

Collected from municipalities	$1,499,023.93	
Power sold to private companies and local distribution systems	1,336,413.22	
Collected from customers in rural power districts	397,484.65	
		$3,232,921.80
Add:		
Amounts due by certain municipalities being the difference between the sums paid and the cost of power supplied to them in the year	$23,727.27	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year	17,557.03	
		41,284.30
		$3,274,206.10
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$38,970.80	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	21,008.96	
		59,979.76
Revenue		$3,214,226.34
Deduct:		
Profit from power sold to local distribution systems, transferred to the credit of obsolescence and contingency reserve		136,927.20
		$3,077,299.14

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1931	To Oct. 31 1931				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alexandria	......	60.00	99,900.64	199.5	1,148.69	3,152.17	4,559.78
Apple Hill	......	60.00	9,368.56	28.4	163.52	671.88	425.68
Athens	80.00	65.00	32,225.70	88.9	511.87	1,183.44	1,477.21
Belleville	......	32.00	784,347.81	3,599.9	20,727.70	31,177.11	34,018.20
Bloomfield	......	60.00	34,584.79	89.6	515.90	1,775.58	1,586.80
Brighton	35.00	37.00	61,548.23	243.0	1,399.16	3,344.39	2,834.15
Brockville	......	30.00	403,794.27	2,149.1	12,374.21	17,451.58	18,252.66
Cardinal	......	37.50	25,841.27	113.4	652.94	1,178.28	1,191.59
Carleton Place	......	35.00	248,081.85	1,112.3	6,404.46	7,698.94	11,258.74
Chesterville	......	40.00	55,543.54	204.1	1,175.18	3,017.99	2,484.14
Deseronto	......	54.00	44,421.20	133.6	769.25	2,066.73	2,060.13
Finch	......	65.00	20,359.30	43.6	251.04	942.45	930.59
Hastings	......	50.00	14,554.29	31.8	183.10	1,157.33	484.96
Havelock	......	45.00	72,352.37	220.6	1,270.18	2,722.97	3,296.50
Kemptville	......	40.00	69,952.72	234.8	1,351.94	2,515.32	3,127.86
Lakefield	48.00	46.00	57,071.78	207.8	1,196.48	2,423.80	2,627.37
Lanark	55.00	50.00	20,955.57	58.6	337.41	681.00	951.93
Lancaster	......	97.00	37,473.97	58.3	335.68	1,007.80	1,709.15
Lindsay	......	40.00	415,901.51	1,572.2	9,052.50	19,021.11	19,104.85
Madoc	44.44	44.50	45,593.18	147.8	851.01	2,340.67	2,090.04
Marmora	48.00	47.00	26,359.40	86.2	496.33	1,362.84	1,209.40
Martintown	......	50.00	6,941.29	24.0	138.19	546.21	316.29
Maxville	86.00	75.00	29,910.67	66.0	380.02	1,206.65	1,359.09
Napanee	35.00	36.00	218,647.39	947.5	5,455.57	9,332.41	10,046.77
Norwood	37.00	38.00	36,946.04	151.2	870.59	1,894.08	1,682.25
Oshawa	......	34.00	2,185,206.24	8,674.6	49,947.09	82,417.37	101,081.71
Ottawa	......	22.50	635,691.33	4,924.7	28,355.71	27,273.23	29,310.24
Ottawa	......	......	964.71	19,071.7	209,788.69	605.99	44.30
Perth	......	35.00	195,425.02	959.0	5,521.78	6,541.43	8,863.58
Peterborough	......	30.00	1,238,359.58	6,127.7	35,282.41	41,158.82	56,918.04
Picton	48.00	45.00	258,154.83	755.1	4,347.76	10,362.68	11,849.78
Port Hope	38.00	37.00	287,685.18	1,229.8	7,081.01	13,855.33	13,246.07
Prescott	......	30.00	139,582.47	802.7	4,621.83	6,953.14	6,352.95
Richmond	65.00	55.00	11,066.00	40.6	853.13	266.47	506.70
Russell	70.00	65.00	25,200.12	55.5	319.56	998.47	1,148.62
Smith's Falls	......	30.00	281,021.91	1,610.5	9,273.02	10,935.02	12,725.92
Stirling	28.60	30.00	49,663.48	258.4	1,487.83	2,147.29	2,283.54
Tweed	......	54.00	60,088.49	160.5	924.14	3,147.04	2,766.51
Warkworth	......	50.00	18,462.58	65.2	375.41	1,032.70	843.75
Wellington	48.00	45.00	51,587.66	166.0	955.80	2,142.60	2,369.84
Whitby	36.00	35.00	226,552.14	893.1	5,142.34	7,575.00	10,477.67
Williamsburg	45.00	42.00	10,375.69	47.2	271.77	794.26	468.14
Winchester	......	40.00	50,290.22	208.9	1,202.82	2,698.60	2,281.89

SYSTEM *E.O.—COST OF POWER*

Power Commission Act—of Power supplied to it by the Commission, the amount
and the amount remaining to be credited or charged to each Munici-
of power supplied to it in the year ending October 31, 1931.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,727.27	320.98	1,033.48	433.18	12,375.55	11,972.65	....	402.90
147.19	33.81	95.15	61.67	1,598.90	1,706.00	107.10	....
517.73	110.47	327.88	193.03	4,321.63	6,015.52	1,693.89	....
6,340.65	6,018.81	7,339.03	7,816.62	113,438.12	115,195.96	1,757.84	....
481.62	197.08	353.15	194.55	5,104.68	5,374.50	269.82	....
661.23	458.13	618.19	527.64	9,842.89	8,900.63	....	942.26
5,001.04	1,587.82	3,969.61	4,666.42	63,303.34	64,472.49	1,169.15	....
356.04	112.54	257.98	246.23	3,995.60	4,253.40	257.80	....
3,390.77	932.58	2,462.10	2,415.18	34,562.77	38,929.10	4,366.33	....
818.65	206.51	557.94	443.17	8,703.58	8,165.05	....	538.53
580.84	295.24	454.28	290.09	6,516.56	7,213.50	696.94	....
344.75	66.75	208.63	94.67	2,838.88	2,833.98	....	4.90
135.90	65.92	106.89	69.05	2,203.15	1,589.98	....	613.17
919.57	454.37	729.32	478.99	9,871.90	9,925.75	53.85	....
1,044.66	244.87	692.90	509.83	9,487.38	9,391.30	....	96.08
656.55	394.96	576.61	451.20	8,326.97	9,641.29	1,314.32	....
336.35	74.42	212.75	127.24	2,721.10	2,983.98	262.88	....
666.97	115.80	387.42	126.59	4,349.41	5,651.03	1,301.62	....
4,631.82	2,898.18	4,185.89	3,413.77	62,308.12	62,887.29	579.17	....
561.52	300.85	459.89	320.92	6,924.90	6,573.66	....	351.24
324.72	182.25	266.77	187.17	4,029.48	4,066.52	37.04	....
104.86	26.29	70.13	52.11	1,254.08	1,198.30	....	55.78
504.81	97.60	306.83	143.31	3,998.31	5,075.63	1,077.32	....
2,140.89	1,674.61	2,180.17	2,057.34	32,887.76	33,947.69	1,059.93	....
377.39	279.82	366.73	328.31	5,799.17	5,713.84	....	85.33
23,669.75	15,697.09	22,102.47	18,835.49	313,750.97	294,934.64	....	18,816.33
5,624.01	2,728.38	6,064.04	10,693.19	110,048.80	115,121.02	5,072.22	....
19.30	4.82	10.15	....	210,473.25	210,473.25	....	....
2,554.16	737.89	1,928.33	2,082.31	28,229.48	33,563.65	5,334.17	....
10,400.04	9,953.09	12,285.51	13,305.31	179,303.22	183,830.75	4,527.53	....
3,392.67	1,545.37	2,625.41	1,639.58	35,763.25	34,391.10	....	1,372.15
2,868.32	2,181.01	2,876.89	2,670.31	44,778.94	45,722.38	943.44	....
1,650.02	566.07	1,367.95	1,742.93	23,254.89	24,081.50	826.61	....
221.32	29.87	116.52	....	1,994.01	2,311.35	317.34	....
424.55	82.97	258.05	120.51	3,352.73	3,667.29	314.56	....
3,345.97	1,116.12	2,741.68	3,496.94	43,634.67	48,316.00	4,681.33	....
384.07	414.19	489.38	561.07	7,767.37	7,688.17	....	79.20
824.80	344.44	612.63	348.50	8,968.06	8,666.10	....	301.96
214.45	126.03	185.36	141.57	2,919.27	3,261.62	342.35	....
642.55	331.26	522.79	360.44	7,325.28	7,544.94	219.66	....
2,468.39	1,584.37	2,292.14	1,939.22	31,479.13	31,411.69	....	67.44
139.29	43.71	102.69	102.49	1,922.35	2,003.14	80.79	....
710.71	198.78	504.11	453.59	8,050.50	8,356.30	305.80	....

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
RURAL POWER DISTRICTS					
Alexandria R.P.D.—Lochiel twp...	11,066.89	21.1	121.49	364.84	511.46
Belleville R.P.D.—Sidney, Thurlow, Tyendinaga and Huntingdon twps.	55,082.84	250.4	1,441.77	2,046.76	2,491.79
Bowmanville R.P.D. — Darlington twp..........................	23,953.40	94.9	546.42	933.58	1,098.07
Brighton R.P.D.—Brighton, Cramahe and Murray twps.........	3,849.93	15.2	87.52	247.30	177.23
Brockville R.P.D.—Leeds and Lansdowne Front, Escott Front, Yonge Front, Elizabethtown, Leeds and Lansdowne Rear, Augusta Yonge and Escott Rear twps...........	59,692.37	266.3	1,533.32	2,943.67	2,728.14
Campbellford R.P.D. — Seymour and Rawdon twps..............	13,092.54	65.8	378.87	436.56	601.10
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabruck twps.......	47,097.22	144.0	829.13	2,001.88	2,133.99
Cobourg R.P.D.—Hope, Haldimand, Hamilton and Alnwick twps......	47,038.01	183.0	1,053.69	1,687.08	2,155.98
Colborne R.P.D.—Haldimand, Cramahe twps...................	17,387.20	66.6	383.47	701.95	794.75
Fenelon Falls R.P.D. — Fenelon Somerville, Bexley and Digby twps.	2,087.18	8.8	50.67	66.15	96.32
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester, and Gower S. twps...............	51,300.18	345.7	1,990.49	2,165.76	2,370.05
Kemptville R.P.D.—Oxford twp...	2,781.13	8.2	47.21	104.13	125.88
Kingston R.P.D.—Ernestown, Portland, Kingston, Loughborough, Pittsburg, Leeds and Lansdowne Front twps....................	60,153.72	214.0	2,109.58	2,176.32	2,767.87
Lakefield R.P.D.—Smith and Harvey twps......................	878.31	4.4	25.33	116.38	40.53
Lindsay R.P.D.—Ops and Fenelon twps..........................	1,420.60	3.6	20.73	45.81	55.55
Martintown R.P.D.— Charlottenburg and Lancaster twps.........	15,786.22	44.7	257.38	608.32	713.75
Maxville R.P.D.—Roxborough, Kenyon, Caledonia, Plantagenet N. and Plantagenet S. twps............	36,756.50	110.9	638.55	1,435.04	1,666.74
Millbrook R.P.D.— Manvers and Cavan twps...................	9,519.45	28.3	162.95	472.10	436.90
Napanee R.P.D.—Hungerford, Ernestown, Fredericksburg N., Richmond, Camden East, Sheffield and Portland twps..............	38,898.47	122.4	704.76	1,660.31	1,750.32
Nepean R.P.D.— March, Nepean, Goulburn, Gower N., Gloucester, Osgoode and Cumberland twps....	7,054.12	446.8	9,382.58	173.59	297.08

SYSTEM *E.O.—COST OF POWER*

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Munici- of power supplied to it in the year ending October 31, 1931.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
192.70	36.45	114.58	45.82	1,387.34	1,387.34	see page	239
497.09	432.51	540.02	543.70	7,993.64	7,993.64	"	"
253.97	172.92	239.19	206.06	3,450.21	3,450.21	"	"
41.36	28.65	38.67	33.00	653.78	653.78	"	"
814.31	229.58	594.35	578.23	9,421.60	9,421.60	"	"
107.57	109.05	129.76	142.87	1,905.78	1,905.78	"	"
728.50	168.67	473.12	312.67	6,647.96	6,647.96	"	"
511.60	346.26	472.73	397.35	6,624.69	6,624.69	"	"
189.88	127.46	173.99	144.61	2,516.11	2,516.11	"	"
21.10	15.01	20.89	19.11	289.25	289.25	"	"
536.19	208.82	497.30	750.63	8,519.24	8,519.24	"	"
43.24	10.24	27.76	17.80	376.26	376.26	"	"
701.28	416.20	607.06	464.67	9,242.98	9,242.98	"	"
7.26	7.11	8.71	9.55	214.87	214.87	"	"
15.68	7.91	12.26	7.82	165.76	165.76	"	"
252.47	56.48	160.73	97.06	2,146.19	2,146.19	"	"
569.69	130.76	368.91	240.80	5,050.49	5,050.49	"	"
123.44	62.34	96.44	61.45	1,415.62	1,415.62	"	"
473.51	260.63	385.31	265.77	5,500.61	5,500.61	"	"
141.08	31.94	74.28	....	10,100.55	10,100.55	"	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Newcastle R.P.D.—Clark, Darlington and Manvers twps	14,449.01	48.6	279.83	620.57	664.80
Norwood R.P.D.— Asphodel, Seymour, Methuen and Dummer twps.	5,648.79	17.5	100.76	214.75	245.24
Omemee R.F.D.— Ops and Emily twps	830.15	2.5	14.39	42.34	38.27
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps	148,619.50	586.6	3,377.56	6,437.17	6,872.34
Perth R.P.D.—Elmsley N. and Elmsley S. twps	305.67	1.5	8.64	18.70	14.04
Peterborough R.P.D.—Cavan, Monaghan N., Smith, Douro, Otonabee and Monaghan S. twps	101,662.23	478.1	2,752.83	3,697.28	4,668.85
Prescott R.P.D.—Augusta and Edwardsburg twps	18,072.98	95.0	547.00	1,128.95	814.65
Smith's Falls R.P.D.—Crosby S., Bastard, Burgess, Burgess S., Kitley, Montague and Wolford twps	43,527.42	142.1	818.19	1,327.71	1,578.85
Stirling R.P.D.—Rawdon and Sidney twps	7,940.99	37.9	218.22	376.56	346.10
Trenton R.P.D.— Sidney, Murray and Brighton twps	14,247.77	63.4	365.05	451.76	657.09
Warkworth R.P.D.—Percy twp	661.19	2.9	16.70	44.79	30.21
Wellington R.P.D.—Hillier, Ameliasburg, Hallowell, Athol and Murray twps	43,455.69	137.2	789.97	1,472.90	1,999.92
Williamsburg R.P.D.—Matilda and Williamsburg twps	3,705.15	25.4	388.92	414.26	166.85
North Bay R.P.D.—West Ferriss and Widdifield twps	32,244.22	77.8	98.29	1,832.91	1,465.48
Arnprior R.P.D.—Fitzroy twp	....	....	1,512.50	....	....
Renfrew R.P.D.— Admaston and Horton twps	....	....	330.00	....	....
Totals—Municipalities	8,598,054.99	57,863.4	433,765.02	340,778.17	392,625.38
Totals—Rural Power Districts	940,267.04	4,161.6	33,384.76	38,468.18	42,576.24
Totals—Companies	5,532,695.38	21,102.2	121,503.40	250,011.45	259,289.27
Totals—Public Utilities owned by the Commission	4,069,798.56	10,886.4	49,250.76	249,925.19	187,049.05
	19,140,815.97				
Campbellford Pulp Mill	52,559.93				
Non-operating Capital	62,961.78				
Grand Totals	19,256,337.68	94,013.6	637,903.94	879,182.99	881,539.94

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Munici- of power supplied to it in the year ending October 31, 1931.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
175.35	100.01	146.33	105.53	2,092.42	2,092.42	see page	239
65.64	35.45	54.01	38.00	753.85	753.85	see page	241
10.75	5.49	8.44	5.43	125.11	125.11	"	"
1,617.63	1,061.11	1,503.59	1,273.70	22,143.10	22,143.10	"	"
3.99	1.16	3.02	3.26	52.81	52.81	"	"
912.28	801.78	1,011.65	1,038.12	14,882.79	14,882.79	"	"
226.34	74.75	178.25	206.28	3,176.22	3,176.22	"	"
488.99	143.42	343.93	308.55	5,009.64	5,009.64	"	"
61.13	61.95	74.30	82.29	1,220.55	1,220.55	"	"
136.30	113.16	142.23	137.66	2,003.25	2,003.25	"	"
6.35	5.20	6.56	6.30	116.11	116.11	"	"
547.42	284.06	440.70	297.91	5,832.88	5,832.88	"	"
50.98	15.64	36.42	33.44	1,106.51	1,106.51	"	"
370.84	225.22	....	....	3,992.74	3,992.74	"	"
....	....	....	....	1,512.50	1,512.50	"	"
....	....	....	....	330.00	330.00	"	"
92,328.16	54,836.12	85,305.82	84,141.73	1,483,780.40	1,499,023.93	38,970.80	23,727.27
10,895.91	5,787.39	8,985.49	7,875.44	147,973.41	147,973.41	....	....
44,940.13	15,187.15	43,325.29	(92,017.17)	642,239.52	642,239.52	....	....
44,082.76	10,384.19	16,554.55	....	557,246.50	694,173.70	136,927.20	* ....
192,246.96	86,194.85	154,171.15	....	2,831,239.83	2,983,410.56	....	....

*Transferred to credit of obsolescence and contingencies reserve.

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Alexandria R.P.D.—Lochiel twp	21,119.84	10,559.92	10,559.92	1,387.34
Arnprior R.P.D.—Fitzroy twp	9,222.78	4,611.39	4,611.39	1,512.50
Belleville R.P.D.—Sidney, Thurlow, Tyendinaga, and Huntingdon twps	141,210.41	70,215.72	70,994.69	7,993.64
Bowmanville R.P.D.—Darlington twp	39,974.53	19,987.27	19,987.26	3,450.21
Brighton R.P.D.—Brighton, Cramahe and Murray twps	13,876.01	6,938.00	6,938.01	653.78
Brockville R.P.D.—Leeds and Lansdowne front, Escott front, Yonge front, Elizabethtown, Leeds and Lansdowne rear, Augusta, Yonge and Escott rear twps	*200,677.75	98,459.99	102,217.76	9,421.60
Campbellford R.P.D.—Seymour and Rawdon twps	*34,472.65	17,228.84	17,243.81	1,905.78
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabruck twps	*89,663.79	42,280.74	47,383.05	6,647.96
Cobourg R.P.D.—Hope, Haldimand, Hamilton and Alnwick twps	165,485.34	82,006.46	83,478.88	6,624.69
Colborne R.P.D.—Haldimand and Cramahe twps	35,733.28	17,866.64	17,866.64	2,516.11
Fenelon Falls R.P.D.—Fenelon, Somerville, Bexley and Digby twps	*36,506.56	17,947.21	18,559.35	289.25
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester and Gower S. twps.	158,701.43	79,053.72	79,647.71	8,519.24
Kemptville R.P.D.—Oxford twp	10,569.92	5,284.96	5,284.96	376.26
Kingston R.P.D.—Ernestown, Portland, Kingston, Loughborough, Pittsburg, and Leeds and Lansdowne front twps	182,511.94	90,239.70	92,272.24	9,242.98
Lakefield R.P.D.—Smith and Harvey twps.	*30,359.91	15,107.72	15,252.19	214.87
Lindsay R.P.D.—Ops and Fenelon twps	*8,808.73	4,398.24	4,410.49	165.76
Martintown R.P.D.—Charlottenburg and Lancaster twps	42,134.53	21,067.27	21,067.26	2,146.19
Maxville R.P.D.—Roxborough, Kenyon, Caledonia, Plantagenet N. and Plantagenet S. twps	116,967.60	58,483.80	58,483.80	5,050.49
Millbrook R.P.D.—Manvers and Cavan twps	18,582.69	9,007.45	9,575.24	1,415.62
Napanee R.P.D.—Hungerford, Ernestown, Fredericksburg N., Richmond, Camden E., Sheffield and Portland twps	*145,507.12	71,661.97	73,845.15	5,500.61
Nepean R.P.D.—March, Nepean, Goulburn, Gower N., Gloucester, Osgoode and Cumberland twps	*296,160.73	144,165.15	151,995.58	10,100.55
Newcastle R.P.D.—Clark, Darlington and Manvers twps	*36,816.58	17,477.58	19,339.00	2,092.42

Note.—Items marked * include portions of transmission lines used for purposes of rural power districts.

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1931.

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c	$ c.	$ c	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
602.55	444.06	386.85	193.43	101.84	3,116.07	2,563.14	....	552.93
370.98	210.35	168.96	84.48	44.48	2,391.75	1,389.19	....	1,002.56
4,307.52	2,869.76	2,484.45	1,242.23	658.13	19,555.73	23,945.27	4,389.54	....
1,068.71	700.56	610.30	305.15	160.66	6,295.59	6,721.45	425.86	....
745.04	189.96	165.49	82.74	43.56	1,880.57	1,670.78	....	209.79
8,326.92	4,062.16	3,464.63	1,732.32	931.59	27,939.22	28,598.62	659.40	....
678.47	767.19	668.05	334.02	175.94	4,529.45	4,366.08	....	163.37
3,321.95	2,150.62	1,771.50	885.75	493.20	15,270.98	15,321.96	50.98	....
4,394.39	3,632.29	3,132.65	1,566.32	833.01	20,183.35	20,795.57	612.22	....
1,859.41	786.53	685.20	342.60	180.38	6,370.23	5,489.42	....	880.81
840.39	283.19	242.03	121.01	64.94	1,840.81	1,430.05	....	410.76
6,467.59	3,582.77	3,109.31	1,554.66	821.65	24,055.22	26,554.44	2,499.22	....
471.05	206.96	180.30	90.15	47.46	1,372.18	830.09	....	542.09
7,267.63	3,822.79	3,306.00	1,653.00	876.71	26,169.11	23,608.14	....	2,560.97
604.83	165.01	140.87	70.43	37.84	1,233.85	564.70	....	669.15
295.03	109.05	94.75	47.38	25.01	736.98	420.99	....	315.99
1,334.88	832.63	725.36	362.68	190.95	5,592.69	5,898.94	306.25	....
2,852.14	2,436.27	2,122.39	1,051.20	558.72	14,081.21	14,030.39	....	50.82
804.31	429.28	365.46	182.73	98.45	3,295.85	2,725.70	....	570.15
4,427.73	2,870.37	2,461.10	1,230.55	658.27	17,148.63	13,463.67	....	3,684.96
9,002.69	5,720.94	4,827.28	2,413.64	1,312.01	33,377.11	36,606.81	3,229.70	....
995.77	876.76	726.58	363.29	201.08	5,255.90	5,733.47	477.57	....

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
North Bay R.P.D.—West Ferris and Widdifield twps	27,637.51	13,467.23	14,170.28	3,992.74
Norwood R.P.D.—Asphodel, Seymour, Methuen and Dummer twps	16,461.61	8,230.80	8,230.81	753.85
Omemee R.P.D.—Ops and Emily twps	3,612.50	1,806.25	1,806.25	125.11
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps	222,561.12	108,132.83	114,428.29	22,143.10
Perth R.P.D.—Elmsley N. and Elmsley S. twps	17,379.42	8,689.71	8,689.71	52.81
Peterborough R.P.D.—Cavan, Monaghan, N, Smith, Douro, Otonabee and Monaghan S. twps	*161,588.85	80,790.44	80,798.41	14,882.79
Prescott R.P.D.—Augusta and Edwardsburg twps	69,739.95	34,686.47	35,053.48	3,176.22
Renfrew R.P.D.—Admaston and Horton twps	7,550.02	3,775.01	3,775.01	330.00
Smiths Falls R.P.D.—Crosby S., Bastard, Burgess S., Kitley, Montague and Wolford twps	106,278.24	51,768.06	54,510.18	5,009.64
Stirling R.P.D.—Rawdon and Sidney twps.	*51,696.87	22,960.37	28,736.50	1,220.55
Trenton R.P.D.—Sidney, Murray and Brighton twps	*72,606.69	36,209.96	36,396.73	2,003.25
Warkworth R.P.D.—Percy twp	*1,598.38	612.42	985.96	116.11
Wellington R.P.D.—Hillier, Ameliasburg, Hallowell, Athol and Murray twps	*162,318.64	80,645.95	81,672.69	5,832.88
Williamsburg R.P.D.—Matilda and Williamsburg twps	22,957.98	11,478.99	11,478.99	1,106.51
	2,779,051.90	1,367,304.23	1,411,747.67	
Non-operating capital	41,760.08	20,620.16	21,139.92	
Totals	2,820,811.98	1,387,924.39	1,432,887.59	147,973.41

NOTE.—Items marked * include portions of transmission lines aggregating $22,947.72 used for purposes of rural power districts.

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1931.

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c	$ c.	$ c.	$ c.	$ c.
1,082.83	478.60	405.34	202.66	109.88	6,272.05	8,018.23	1,746.18	....
590.52	349.24	304.25	152.12	80.09	2,230.07	1,701.95	....	528.12
16.22	74.41	64.82	32.41	17.06	330.03	207.03	....	123.00
13,531.66	4,970.26	4,217.56	2,108.78	1,139.85	48,111.21	54,541.78	6,430.57	....
434.66	65.73	57.26	28.63	15.07	654.16	210.47	....	443.69
7,231.08	3,427.69	2,985.92	1,492.96	786.08	30,806.52	30,757.67	....	48.85
3,783.74	1,511.17	1,309.14	654.57	346.55	10,781.39	10,829.18	47.79	....
255.71	187.29	110.44	55.22	29.07	967.73	544.98	....	422.75
5,155.70	2,410.32	2,048.14	1,024.07	552.77	16,200.64	15,327.05	....	873.59
1,353.65	1,272.12	1,007.92	503.96	291.75	5,649.95	4,971.24	....	678.71
2,271.48	1,494.65	1,298.35	649.18	342.79	8,059.70	8,169.73	110.03	....
77.03	43.30	30.25	15.13	9.93	291.75	315.40	23.65	....
4,634.42	3,266.79	2,828.29	1,414.15	749.20	18,725.73	16,469.74	....	2,255.99
873.21	504.55	439.55	219.77	115.72	3,259.31	2,691.33	....	567.98
102,331.89	57,205.62	48,946.74	24,473.37	13,101.69	394,032.72	397,484.65	21,008.96	17,557.03

Net credit.. $3,451.93

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alexandria	Jan., 1921		429.41	429.41	
Apple Hill	April, 1921		106.89	106.89	
Athens	Jan., 1929	2,022.94			2,022.94
Belleville	April, 1929	7,399.96			7,399.96
Bloomfield	April, 1919	380.24			380.24
Brighton	Nov., 1929		220.92	220.92	
Brockville	April, 1915		1,541.38	1,541.38	
Cardinal	July, 1930		400.51	400.51	
Carleton Place	May, 1919	3,605.11			3,605.11
Chesterville	April, 1914	39.25			39.25
Deseronto	Jan., 1931				
Finch	Feb., 1928	112.23			112.23
Hastings	June, 1931				
Havelock	Feb., 1921	466.51			466.51
Kemptville	Dec., 1921	867.95			867.95
Lakefield	Aug., 1920	1,771.88			1,771.88
Lanark	Sept., 1921	608.23			608.23
Lancaster	May, 1921		8,085.86	500.00	
Lindsay	Mar., 1928	1,678.94			1,678.94
Madoc	Jan., 1930		1,084.67	1,084.67	
Marmora	Jan., 1921	274.02			274.02
Martintown	May, 1921		8.17	8.17	
Maxville	Feb., 1921	1,031.20			1,031.20
Napanee	Nov., 1929	53.34			53.34
Norwood	Feb., 1921	111.45			111.45
Oshawa	Feb., 1929	603.01			608.01
Ottawa	Jan., 1914	6,771.42			6,771.42
Perth	Feb., 1919	4,926.33			4,926.33
Peterborough	Mar., 1913	10,783.80			10,997.70
Picton	April, 1919	3,650.14			3,650.14
Port Hope	Nov., 1929	2,805.61			2,805.61
Prescott	Dec., 1913	80.03			80.03
Richmond	Aug., 1928	725.72			725.72
Russell	Feb., 1926	509.26			509.26
Smiths Falls	Sept., 1918	8,392.63			8,392.63
Stirling	Jan., 1930		423.07	423.07	
Tweed	Dec., 1930				
Warkworth	Oct., 1923	404.87			404.87
Wellington	April, 1919	858.31			858.31
Whitby	Jan., 1926	2,272.14			2,272.14
Williamsburg	April, 1915	291.42			291.42
Winchester	Jan., 1914	707.47			707.47

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *E.O.—CREDIT OR CHARGE*

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
	7.91		402.90		410.81
	1.60	107.10		105.50	
40.35		1,693.89		1,734.24	
127.32		1,757.84		1,885.16	
7.55		269.82		277.37	
	4.50		942.26		946.76
	30.91	1,169.15		1,138.24	
	14.88	257.80		242.92	
79.72		4,366.33		4,446.05	
0.74			538.53		537.79
		696.94		696.94	
2.13			4.90		2.77
			613.17		613.17
9.25		53.85		63.10	
17.22			96.08		78.86
41.64		1,314.32		1,355.96	
11.26		262.88		274.14	
	311.32	1,301.62			6,595.56
18.48		579.17		597.65	
	19.73		351.24		370.97
5.80		37.04		42.84	
	0.22		55.78		56.00
17.82		1,077.32		1,095.14	
1.06		1,059.93		1,060.99	
2.36			85.33		82.97
11.99			18,816.33		18,804.34
129.86		5,072.22		5,202.08	
89.92		5,334.17		5,424.09	
213.90		4,527.53		4,527.53	
72.40			1,372.15		1,299.75
53.19		943.44		996.63	
1.74		826.61		828.35	
14.63		317.34		331.97	
10.10		314.56		324.66	
174.02		4,681.33		4,855.35	
	8.35		79.20		87.55
			301.96		301.96
7.09		342.35		349.44	
15.18		219.66		234.84	
37.85			67.44		29.59
6.06		80.79		86.85	
14.28		305.80		320.08	

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1931, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1930		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
RURAL POWER DISTRICTS		$ c.	$ c.	$ c.	$ c.
Alexandria R.P.D.	Dec., 1929		1,235.62		
Arnprior R.P.D.	Dec., 1930				
Belleville R.P.D.	Aug., 1927	13,217.16			
Bowmanville R.P.D.	Jan., 1924	197.67			
Brighton R.P.D.	Nov., 1929		44.41		
Brockville R.P.D.	Nov., 1921	562.27			
Campbellford R.P.D.	Aug., 1924		684.12		
Chesterville R.P.D.	Nov., 1921	5,303.95			
Cobourg R.P.D.	Feb., 1927	1,649.32			
Colborne R.P.D.	Aug., 1925	2,227.51			80.00
Fenelon Falls R.P.D.	July, 1931				
Iroquois R.P.D.	July, 1930		1,067.74		
Kemptville R.P.D.	Dec., 1930				
Kingston R.P.D.	Jan., 1923		1,596.69		76.36
Lakefield R.P.D.	July, 1928		25.16		
Lindsay R.P.D.	July, 1930		28.99		
Martintown R.P.D.	Jan., 1922	441.40			
Maxville R.P.D.	Dec., 1927		487.26		23.49
Millbrook R.P.D.	July, 1930		251.41		
Napanee R.P.D.	Nov., 1927	513.98			
Nepean R.P.D.	Feb., 1922	4,795.40			578.21
Newcastle R.P.D.	Sept., 1927	986.65			
North Bay R.P.D.	June, 1927	3,960.36			
Norwood R.P.D.	Jan., 1929		332.02		
Omemee R.P.D.	Jan., 1931				
Oshawa R.P.D.	April, 1918	25,892.66			31.39
Perth R.P.D.	Aug., 1931				
Peterborough R.P.D.	Jan., 1927	11,481.20			
Prescott R.P.D.	June, 1922	883.73			1,156.73
Renfrew R.P.D.	Nov., 1930				
Smiths Falls R.P.D.	May, 1929		2,289.03		
Stirling R.P.D.	Nov., 1929		78.26		
Trenton R.P.D.	Jan., 1924	2,162.71			
Warkworth R.P.D.	Nov., 1928		38.10	22.08	
Wellington R.P.D.	Nov., 1925		266.21		22.08
Williamsburg R.P.D.	Feb., 1923		831.45		
Totals		138,486.38	21,557.35	4,737.10	66,392.57

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" tatements preceding.

supplied to it to October 31, 1930, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1931

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
	49.42		552,93		1,837.97
			1,002.56		1,002.56
528.69		4,389.54		18,135.39	
7.91		425.86		631.44	
	1.78		209.79		255.98
22.49		659.40		1,244.16	
	27.36		163.37		874.85
212.16		50.98		5,567.09	
65.97		612.22		2,327.51	
89.10			880.81	1,355.80	
			410.76		410.76
	42.71	2,499.22		1,388.77	
			542.09		542.09
	65.92		2,560.97		4,299.94
	1.01		669.15		695.32
	1.16		315.99		346.14
17.66		306.25		765.31	
	20.12		50.82		581.69
	10.06		570.15		831.62
20.55			3,684.96		3,150.43
178.22		3,229.70		7,625.11	
39.47		477.57		1,503.69	
158.41		1,746.18		5,864.95	
	13.28		528.12		873.42
			123.00		123.00
1,035.15		6,430.57		33,326.99	
			443.69		443.69
459.25			48.85	11,891.60	
0.74		47.79			224.47
			422.75		422.75
	91.56		873.59		3,254.18
	3.13		678.71		760.10
86.51		110.03		2,359.25	
	0.99	23.65		6.64	
	11.18		2,255.99		2,555.46
	33.26		567.98		1,432.69
4,157.19	772.36	59,979.76	41,284.30	132,491.81	55,137.96

EASTERN ONTARIO SYSTEM

Reserve for Renewals, October 31, 1931

Total provision for renewals to October 31, 1930		$3,477,726.19
Deduct expenditures to October 31,1930		837,719.75
Balance brought forward at October 31, 1930		$2,640,006.44
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$103,224.07	
Amounts included in the costs of distribution of power within rural power districts	48,946.74	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and against equipment in local distribution systems and pulp mill	90,074.09	
Reserve provided in respect of equipment and rural lines purchased	8,177.00	
Interest at 4% per annum on the monthly balances at the credit of the account	105,207.54	
		355,629.44
		$2,995,635.88
Deduct:		
Expenditures during the year ending October 31, 1931	$28,423.93	
Accumulated reserves for renewals in respect of local distribution systems sold to municipalities during the year—employed to write down the book values of such local distribution systems	16,641.91	
		45,065.84
Balance carried forward October 31, 1931		$2,950,570.04

EASTERN ONTARIO SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1931

Balance brought forward at October 31, 1930		$1,010,209.01
Added during the year ending October 31, 1931:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$60,623.51	
Amount included in the costs of distribution of power within rural power districts	24,473.37	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution systems	25,571.34	
Net profit from operation of local distribution systems and utilities, and from the sale of old equipment	102,746.79	
Interest at 4% per annum on monthly balances at the credit of the account	40,408.36	
		253,823.37
		$1,264,032.38
Deduct:		
Contingencies met with during the year ending October 31, 1931		9,164.05
Balance carried forward October 31, 1931		$1,254,868.33

EASTERN ONTARIO SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1931

Municipality	Period of years ending Oct. 31, 1931	Amount
		$ c.
Alexandria	7 years	13,868.19
Apple Hill	7 "	1,310.62
Athens	3 "	1,454.76
Belleville	3 "	35,261.87
Bloomfield	3 "	1,686.29
Brighton	2 "	2,032.82
Brockville	11 "	70,981.87
Cardinal	2 "	529.27
Carleton Place	7 "	30,458.75
Chesterville	12 "	14,334.56
Deseronto	1 "	643.06
Finch	4 "	1,232.02
Hastings	1 "	151.82
Havelock	3 "	3,834.64
Kemptville	7 "	7,343.80
Lakefield	3 "	2,828.71
Lanark	7 "	2,324.04
Lancaster	7 "	3,316.20
Lindsay	3 "	21,842.26
Madoc	2 "	1,244.51
Marmora	3 "	1,341.16
Martintown	7 "	830.02
Maxville	7 "	3,874.96
Napanee	2 "	7,698.57
Norwood	3 "	1,838.68
Oshawa	3 "	119,283.82
Ottawa	16 "	23,115.16
Perth	7 "	25,212.54
Peterborough	3 "	76,277.22
Picton	3 "	12,578.55
Port Hope	2 "	9,981.65
Prescott	12 "	19,492.45
Richmond	4 "	387.52
Russell	6 "	2,166.89
Smiths Falls	8 "	40,591.43
Stirling	2 "	1,553.43
Tweed	1 "	839.41
Warkworth	3 "	895.96
Wellington	3 "	2,337.42
Whitby	3 "	12,578.30
Williamsburg	11 "	1,643.34
Winchester	12 "	8,557.75

Rural Power District	Period of years ending Oct. 31, 1931	Amount
		$ c.
RURAL POWER DISTRICTS*		
Alexandria R.P.D.	2 years	374.91
Arnprior R.P.D.	1 "	44.48
Belleville R.P.D.	3 "	3,753.60
Bowmanville R.P.D.	3 "	758.67
Brighton R.P.D.	2 "	172.23
Brockville R.P.D.	10 "	6,045.51
Campbellford R.P.D.	3 "	1,123.21
Chesterville R.P.D.	10 "	3,946.61
Cobourg R.P.D.	3 "	4,241.02
Colborne R.P.D.	3 "	1,108.73
Fenelon Falls R.P.D.	1 "	98.26
Iroquois R.P.D.	2 "	2,468.86
Kemptville R.P.D.	1 "	86.81
Kingston R.P.D.	3 "	2,949.84
Lakefield R.P.D.	3 "	61.97
Lindsay R.P.D.	2 "	46.52
Martintown R.P.D.	10 "	3,040.43
Maxville R.P.D.	4 "	2,558.68
Millbrook R.P.D.	2 "	312.01
Napanee R.P.D.	3 "	1,695.17
Nepean R.P.D.	10 "	6,565.20
Newcastle R.P.D.	3 "	821.95
North Bay R.P.D.	2 "	207.57
Norwood R.P.D.	3 "	282.98
Omemee R.P.D.	1 "	29.03
Oshawa R.P.D.	3 "	9,627.12
Perth R.P.D.	1 "	20.21
Peterborough R.P.D.	3 "	7,478.57
Prescott R.P.D.	10 "	4,318.06
Renfrew R.P.D.	1 "	29.07
Smiths Falls R.P.D.	3 "	2,091.06
Stirling R.P.D.	2 "	493.59
Trenton R.P.D.	3 "	700.47
Warkworth R.P.D.	3 "	44.02
Wellington R.P.D.	3 "	1,982.58
Williamsburg R.P.D.	7 "	380.57
		659,715.86

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

EASTERN ONTARIO SYSTEM

Reserve for Sinking Fund, October 31, 1931

Total provision for sinking fund to October 31, 1930		$473,502.91
Provided in the year ending October 31, 1931:		
By charges included in the cost of power delivered to municipalities and rural power districts	$94,291.31	
By charges included in the costs of distribution of power within rural power districts	13,101.69	
By charges against contracts with private companies which purchased power, and local distribution systems	59,879.84	
Interest at 4% per annum on the amount standing at the credit of the account	18,940.11	
		186,212.95
		$659,715.86

THUNDER BAY

Operating Account for the Year

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system		$217,397.15
Interest on capital investment		879,477.46
Provision for renewal of generating plants, transformer stations and transmission lines		151,173.65
Provision for sinking fund:		
By charges included in the cost of power delivered to municipalities	$98,807.09	
By charges against contracts with private companies which purchased power	37,006.04	
		135,813.13
		$1,383,861.39

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Oct. 31, 1931			Operating, maintenance and administrative expenses	Interest
		$ c.		$ c.	$ c.
Fort William	$21.00 plus transformation charges	3,212,837.42	10,511.3	39,728.04	153,683.32
Port Arthur	$21.00 plus transformation charges	10,132,285.01	33,628.1	120,913.55	484,446.22
Township of Nipigon	$35.00	18,466.89	65.1	546.29	883.94
Totals—Municipalities		13,363,589.32	44,204.5	161,187.88	639,013.48
Totals—Companies		5,003,672.84	17,117.9	56,209.27	240,463.98
		18,367,262.16			
Non-operating capital		39,101.23			
Grand totals		18,406,363.39	61,322.4	217,397.15	879,477.46

SYSTEM

ending October 31, 1931

REVENUE FOR PERIOD

Collected from municipalities	$981,976.76	
Power sold to private companies	357,069.87	
		$1,339,046.63
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied them in the year		45,353.56
		$1,384,400.19
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period		538.80
Revenue		$1,383,861.39
		$1,383,861.39

SYSTEM

T.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1931

costs and fixed charges		Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
26,866.41	23,753.29	4,033.18	248,064.24	237,002.95	....	11,061.29
83,807.83	74,917.20	12,903.08	776,987.88	742,695.61	....	34,292.27
147.59	136.60	24.98	1,739.40	2,278.20	538.80	....
110,821.83	98,807.09	16,961.24	1,026,791.52	981,976.76	538.80	45,353.56
40,351.82	37,005.04	(16,961.24)	357,069.87	357,069.87	....	....
151,173.65	135,813.13	....	1,383,861.39	1,339,046.63	....	....

THUNDER BAY

Statement showing the net Credit to each municipality in respect of power supplied during the year; also the net amount Credited or Charged to each Munici- accumulated amount standing as a Credit or Charge

Municipality	Date commenced operating	Net credit at October 31, 1930	Payments on account of such credits, also adjustments made during the year	
		Credit	Credited	Charged
		$ c.	$ c.	$ c.
Fort William	Oct., 1926	496.54	....	238.90
Nipigon twp	Jan., 1925	583.56	....	589.05
Port Arthur	Dec., 1910	1,983.61	....	494.18
Totals	....	3,063.71	....	1,322.13

THUNDER BAY SYSTEM

Reserve for Renewals, October 31, 1931

Total provision for renewals to October 31, 1930	$776,360.55	
Deduct:		
Expenditures to October 31, 1930	2,156.62	
Balance brought forward October 31, 1930		$774,203.93
Added during the year ending October 31, 1931:		
Amounts charged to municipalities as part of the cost of power delivered to them	$110,821.83	
Provision against equipment employed in respect of contracts with private companies which purchased power	40,351.82	
Interest at 4% per annum on monthly balances at the credit of the account	30,968.16	
		182,141.81
		$956,345.74
Deduct:		
Expenditures during the year ending October 31, 1931		1,201.94
Balance carried forward October 31, 1931		$955,143.80

THUNDER BAY SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system and interest allowed thereon to October 31, 1931

Municipality	Period of years ending October 31, 1931	Amount
		$ c.
Fort William	5 years	158,980.96
Nipigon twp	5 "	888.07
Port Arthur	5 "	561,664.61
		721,533.64

SYSTEM *T.B.—CREDIT OR CHARGE*

to it to October 31, 1930, payments thereon, adjustments made and interest added pality in respect of power supplied in the year ending October 31, 1931, and to each Municipality at October 31, 1931

Interest at 4% per annum added during the year	Net amount credited or charged in respect of power supplied in the year ending October 31, 1931		Accumulated amount standing as a credit or charge on October 31, 1931	
Credited	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.
20.15	....	11,061.29	....	10,783.50
12.77	538.80	....	546.08	....
97.39	....	34,292.27	....	32,705.45
130.31	538.80	45,353.56	546.08	43,488.95

THUNDER BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1931

Balance brought forward October 31, 1930		$828,595.58
Added during the year ending October 31, 1931:		
Additional amounts charged to municipalities as part of the cost of power delivered to them in the year ending October 31, 1930	$44,615.06	
Additional provision against equipment employed in respect of contracts with private companies in the year ending October 31, 1930	15,384.94	
Interest at 4% per annum on monthly balances at the credit of the account	35,543.82	
		95,543.82
		$924,139.40
Deduct:		
Expenditures during the year ending October 31st, 1931		3,500.00
Balance carried forward October 31, 1931		$920,639.40

THUNDER BAY SYSTEM

Reserve for Sinking Fund, October 31, 1931

Total provision for sinking fund to October 31, 1930		$563,192.80
Provided in the year ending October 31, 1931:		
By charges included in the cost of power delivered to municipalities	$98,807.09	
By charges against contracts with private companies which purchased power	37,006.04	
Interest at 4% per annum on amounts standing at the credit of the reserve account	22,527.71	
		158,340.84
Total		$721,533.64

SUDBURY DISTRICT—

Operating Account for the

COST OF OPERATION

Cost of operating and maintaining generating plants, transmission lines and stations, including water rentals and the proportion of administrative expenses of the Commission chargeable to the operation of the properties	$101,871.57
Engineering and other expenses in connection with arrangements for an additional supply of power for this district	6,935.62
Interest on the capital investment of the Commission in the Wahnapitae properties	128,423.58
Provision for renewals	26,874.94
	$264,105.71
Purchase of flooding rights and settlement of claims for damages, due to high water in Wahnapitae Lake	29,682.18
Surplus—transferred to contingencies reserve	43,386.44
	$337,174.33

ABITIBI—

Operating Account for the

COST OF OPERATION

Power purchased	$27,083.33
Cost of operating and maintaining transmission line and metering station	2,804.32
Interest on the capital investment of the Commission in the Abitibi line and station for the month of October, 1931	8,028.92
	$37,916 57

PATRICIA DISTRICT—

Operating Account for the

COST OF OPERATION

Cost of operating and maintaining generating plant at Ear Falls, including water rentals and the proportion of administrative expenses chargeable to the operation of the plant	$15,896.31
Interest on Commission's investment in the plant	23,912.12
Portion of the interest on the investment in plant, for the broken operating period of ten months to October 31, 1930, brought forward	4,391.97
Surplus—Transferred to renewals reserve	5,674.60
	$49,875.00

WAHNAPITAE PROPERTIES

Year Ending October 31, 1931

Revenue for Period

Power sold at fixed rates to private consumers and municipalities	$337,174.33
	$337,174.33

SUDBURY DISTRICT

Reserve for Obsolescence and Contingencies—October 31, 1931

Balance brought forward at October 31, 1930		$10,582.50
Added during the year ending October 31, 1931	$43,386.44	
Interest at 4 per cent. per annum on monthly balances at the credit of the account	423.30	
		43,809.74
Balance carried forward, October 31, 1931		$54,392.24

SUDBURY LINE

Month of October, 1931

Revenue for Period

Power sold at fixed rate to a private company	$24,000.00
Excess of operating expense over revenue for the broken period ending October 31, 1931	13,916.57
	$37,916.57

(EAR FALLS GENERATING PLANT)

Year Ending October 31, 1931

Revenue for Period

Power sold to private consumer	$49,875.00
	$49,875.00

HYDRO-ELECTRIC POWER

Account

The Provincial

For the Year ending

Niagara and

Apr. 29, 1931	Cash returned to the Province in the year ending October 31, 1931, to cover the difference between advances by the Province to the Commission and the capital expenditures made out of such advances by the Commission, in the year ending October 31, 1930...		$388,712.70
Oct. 31, 1931	Repayment to the Province of the investment—according to book values—in the distribution systems in Deseronto and Tweed (in the former Central Ontario System) upon the sale of these properties to the municipalities.		48,790.12
April 29, and Oct. 31, 1931	Repayment to the Province of advances in respect of the Commission's investment in the distribution systems in Walkerton, Southampton, Wiarton and Port Elgin, upon the sale of these properties to the municipalities, for the aggregate sum of..................		121,000.00
April 30, 1931	Paid on account of interest..................	$4,621,182.52	
Oct. 31, 1931	Cheque to cover balance of interest for year ending October 31, 1931..................	4,649,502.27	
			9,270,684.79
Oct. 31, 1931	Payment under debt retirement plan......................		1,775,462.09
Oct. 31, 1931	Balance carried down..................................		188,377,180.39
			$199,981,830.09

GUELPH

Operating Account for

EXPENDITURE

Transportation expense..................................	$26,562.15	
Maintenance—way and structures..........................	6,914.31	
Maintenance—equipment..................................	17,192 63	
Electric power and motor fuel...........................	12,256.30	
General operating and management expenses................	8,493.13	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway............	2,527.23	
Insurance...	4,338.54	
Taxes...	363.06	
		$78,647.35
Interest..		15,254.05
Provision for instalments payable to the city of Guelph on May 1, 1931, and November 1, 1931, under purchase agreement:		
Interest for year.......................................	$4,060.47	
On account of principal.................................	7,639.53	
		11,700.00
Provision for sinking fund..............................		1,579.50
		$107,180.90

COMMISSION OF ONTARIO

with

Treasurer

October 31, 1931

Other Systems

Oct. 31, 1930	Cash advances to date for the purposes of Niagara and other Power Systems	$187,474,476.18	
	Less repayments to that date under debt retirement plan	10,675,033.88	
			$176,799,442.30
Nov. 1, 1930 to Oct. 31, 1931	Sundry cash advances		13,911,703.00
Oct. 31, 1931	Interest for year on all cash advances	$9,781,290.46	
	Less—Interest credited by Province on repayments made by Commission	510,605.67	
			9,270,684.79
			$199,981,830.09

Nov. 1, 1931	Total cash advances	$200,827,676.36
	Less—Payments made under debt retirement plan	12,450,495.97
		$188,377,180.39

RADIAL RAILWAY

the Year Ending October 31, 1931

Revenue

Operating revenue	$77,532.40
Net deficit for year paid by the city of Guelph	29,648.50
	$107,180.90

Reserve for Renewals, October 31, 1931

Total provision for renewals to October 31, 1930	$53,329.65
Deduct:	
Expenditures to October 31, 1930	22,915.16
Balance brought forward October 31, 1930	$30,414.49
Added during the year ending October 31, 1931:	
Interest at 4 per cent. on the monthly balances to the credit of the account	1,216.58
	$31,631.07

APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES

For the year ending October 31, 1931

Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending October 31, 1931

NIAGARA SYSTEM

Appropriations by Legislature:

For power developments	$5,680,000.00
For transformer and distributing stations	6,365,000.00
For transmission and distribution lines	6,000,000.00
	$18,045,000.00

Cash advances to the Commission out of such appropriations	$9,412,717.00	
Unexpended balance as at October 31, 1931, returnable to Province	710,070.49	
		$8,702,646.51

Capital expenditure by the Commission:

On Queenston-Chippawa development		$38,669.20	
On Chats Falls development		2,698,472.33	
On right-of-way		13,128.91	
On steel-tower lines		107,925.91	
On wood-pole lines		71,607.71	
On transformer stations		698,912.27	
On Eastern transmission lines		2,041,257.74	
On Eastern transformer stations		2,160,983.71	
On rural power districts		873,318.73	
		$8,704,276.51	
On Ontario Power generating plant:			
Receipts in excess of expenditures	$280.00		
On Electric Power generating plant:			
Receipts in excess of expenditures	1,350.00		
		1,630.00	
Total			$8,702,646.51

GEORGIAN BAY SYSTEM

Appropriations by Legislature	$1,510,000.00	
Cash advances to the Commission out of such appropriations	$434,008.00	
Deduct—Amount returned to Provincial Treasurer during year, being amount realized from sale of distribution systems to Walkerton, Southampton, Wiarton and Port Elgin, respectively	121,000.00	
	$313,008.00	
Unexpended balance as at October 31, 1931, returnable to Province	50,229.50	$262,778.50
Capital expenditure by the Commission:		
On power development	$45,668.41	
On transmission lines	100,723.10	
On transformer stations	100,209.99	
On rural power districts	136,265.72	
On local distributing systems	4,943.74	
	$387,810.96	
On Walkerton and Saugeen properties:		
Receipts in excess of expenditures	125,032.46	
Total		$262,778.50

EASTERN ONTARIO SYSTEM

Year ending October 31, 1931

Appropriations by Legislature and by Treasury Board Minute:			
Central Ontario section		$906,500.00	
St. Lawrence, Ottawa and Rideau, Eastern and Madawaska sections		785,000.00	
Nipissing district		157,000.00	
		$1,848,500.00	
Cash advances to the Commission out of such appropriations and treasury board minute		$766,100.00	
Unexpended balance as at October 31, 1931, returnable to the Province		63,725.67	$702,374.33
Capital expenditures by the Commission:			
On power development—Eastern Ontario system	$60,982.37		
On transmission lines—Eastern Ontario system	65,065.36		
On transformer stations—Eastern Ontario system	142,675.76		
On rural power districts—Eastern Ontario system	325,118.12		
On local distributing systems—Eastern Ontario system	12,897.45	$606,739.06	
On power development—Nipissing district	$20,211.97		
On transmission lines—Nipissing district	74,656.80		
On transformer stations—Nipissing district	223.99		
On local distribution systems—Nipissing district	8,605.45	103,698.21	
		$710,437.27	
On Ottawa River surveys:			
Receipts in excess of expenditures		8,062.94	$702,374.33

THUNDER BAY SYSTEM

Appropriations by Legislature and by Treasury Board minute	$863,325.00	
Cash advances to the Commission out of such appropriations and Treasury Board minute	$783,802.00	
Unexpended balance as at October 31, 1931, returnable to Province	23,234.92	
		$760,567.08
Capital expenditure by the Commission:		
On power developments	$750,806.21	
On transmission lines	2,869.45	
On transformer stations	6,159.06	
On rural power districts	732.36	
Total		$760,567.08

SUDBURY DISTRICT

Appropriations by Legislature and special warrant		$5,816,005.00	
Cash advances to the Commission out of such appropriations and special warrant		$2,509,076.00	
Deduct—Capital expenditures in the year ending October 31, 1930 in excess of cash advances by the Province		32,088.23	
		$2,476,987.77	
Unexpended balance as at October 31, 1931 returnable to Province		51,296.19	
			$2,425,691.58
Capital expenditure by the Commission:			
On retirement of Wahnapitae Power Company Limited 6½ per cent. mortgage bonds assumed by this Commission at time of transfer of that Company's plants and works	$481,005.00		
On transmission lines	1,948,394.68		
On transformer stations	1,418.78		
On local distribution system	1,124.31		
		$2,431,942.77	
On power development:			
Receipts in excess of expenditures		6,251.19	
			$2,425,691.58

PATRICIA DISTRICT (EAR FALLS)

Appropriations by Legislature	$10,000.00	
Cash advances to the Commission out of such appropriations	Nil.	
Unexpended portion of cash advances in the fiscal year ending October 31, 1930 brought forward and returnable to Province	$778.47	
Receipts in excess of expenditures in respect of Ear Falls development for the fiscal year ending October 31, 1931, also returnable to Province	1,487.00	
Total—Returnable to Province		$2,265.47

MISCELLANEOUS

Appropriations by Legislature	$1,500,000.00	
Cash advances to the Commission out of such appropriations	6,000.00	
Unexpended balance as at October 31, 1931, returnable to Province	1,492.58	
		$4,507.42
Capital expenditure by the Commission:		
On service building and equipment		$4,507.42

RURAL POWER DISTRICTS—SUMMARY

Statement showing the total Capital Expenditures to October 31, 1931 on the construction of Primary and Secondary Lines in Rural Power Districts, the portion thereof in course of construction; the investment in lines in operation; the amounts of the Grants (fifty per cent of both Primary and Secondary lines) payable to the Commission by the Province of Ontario; also the extents to which Grants stand authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the amounts of such Grants paid over by the Province to the Commission under such authorizations up to October 31, 1931

System	Total capital expenditure	In course of construction	In operation	Grant (50% of primary and secondary lines) payable by the Province	Extents to which grants stand authorized by orders-in-council	Grant paid by Province to Commission under such authorizations
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara system	11,515,501.47	137,028.86	11,378,472.61	5,720,598.19	6,721,031.08	5,689,585.65
Georgian Bay system	1,192,734.10	35,000.84	1,157,733.26	568,586.98	664,846.02	568,519.71
Thunder Bay system	1,464.71	1,464.71	....	732.35	8,719.50	732.35
Eastern Ontario system (including Nipissing, Ottawa and Madawaska districts	2,797,882.26	41,760.08	2,756,122.18	1,387,924.39	1,617,763.39	1,387,924.39
Totals	15,507,582.54	215,254.49	15,292,328.05	7,677,841.91	9,012,359.99	7,646,762.10
Additional sum authorized by above Orders-in-Council and paid over to the Commission, but not allocated as between rural power districts	....	....	....	....	....	144,346.00
						$7,791,108.10

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1931, on account of authorized grants to rural power districts—as above set out—amounts to	$7,791,108.10	
The grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1931 amount in the aggregate to	7,677,841.91	
A balance of		$113,266.19
Which balance represents:		
(a) Grant funds in the hands of the Commission at October 31, 1931, not allocated but to apply against the construction of authorized rural power districts and extension to existing districts	$144,346.00	
Less:		
(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed, or under construction	31,079.81	
		$113,266.19

SECTION X

MUNICIPAL ACCOUNTS

And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing system and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and the financial status at the present time. Other tables give much useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the local electrical utilities in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with a uniform accounting system designed by the Commission. During the year 1931, the uniform accounting system was installed in the following municipalities as each became ready for the service: Deserònto, Hastings, Port Elgin, Rosseau, Southampton, Tweed, Walkerton, Wiarton and Long Branch (seceding from Etobicoke Township).

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping for the electrical utilities is performed by representatives of the Municipal Audit department of the Commission, in order to insure the employment of proper classifications of revenues and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from $10,081,469.16 in 1913 to $86,551,982.32 in 1931, and the total assets from $11,907,826.86 to $125,537,858.08. The liabilities have not increased in the same proportion as the assets, rising from $10,468,351.79 to $52,199,267.83. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 44.1 per cent in 1931. The equities in the Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. Study of this statement will show that the revenue has been increasing satisfactorily. The combined annual surplus, after providing for every cost of operation and fixed charges, including an adequate depreciation charge, amounted in 1931 to $1,187,523.67.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal system and the results of operations, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. In the statements "A" and "B," the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" shows balance sheets for each municipality with the plant values subdivided into the general natural subdivisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "equity in H-E.P.C. systems." These items represent the amount of accumulated sinking fund paid by the various municipalities through the medium of "power cost" toward the ultimate retirement of the capital invested by the Hydro-Electric Power Commission on behalf of the partner municipalities. The total accumulation to the end of 1931 is shown on the consolidated balance sheet to be $20,103,275.76.

During the year rebates were made in many municipalities in respect to surpluses standing to the credit of municipal street lighting and waterworks services, and to individual consumers, of amounts varying from one-sixth to one-fourth of the previous year's revenue. These rebates amounted in round figures to approximately $332,600.00 and affected the cash balances and surpluses in the current balance sheets accordingly.

In each case the balance sheet is complete and final, including either in "accounts receivable," or "accounts payable," the adjustments with the Hydro-Electric Power Commission of the differences between the estimated and the actual costs of power to the municipality.

The liabilities of each local system are set out under their general subdivisions,—debenture balance, accounts payable, bank overdraft, and other liabilities; this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission's systems, are also listed separately and totalled; and under the heading "surplus" are included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The "depreciation reserve" now amounts to 18.71 per cent of the total depreciable plant, while the "depreciation reserve" and "surplus" combined have already reached the sum of $51,542,184.66, approximating 59.55 per cent of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure; the amount of the annual surpluses and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class, are also shown.

The item "power purchased" includes the annual adjustment made by the Commission, and hence shows for the calendar year the actual cost to the municipal electrical utility and not the cost at the interim billed rates.

Of the 275 municipal electrical utilities included in this statement, 200 had revenue from consumers sufficient to meet all operating expenses and fixed charges and to yield an aggregate operating surplus of $1,299,066.94 for the year; 42 were able to defray all operating and fixed charges except depreciation, but failed to set aside the full theoretical amounts for that reserve by $28,631.83; 33 had gross deficits in respect of operating expenses and fixed charges other than depreciation, aggregating $39,571.44. The net surplus for all "Hydro" utilities was $1,187,523.67 for the year.

Statement "C" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1931, and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.* For further reference to this informative statement, consult the special introduction to it on page 382.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1931, for domestic service, for commercial light service and for power service.

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*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR	1913	1914	1915
Number of municipalities included	45	69	99
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	626,707.34	791,732.20	873,838.18
Substation equipment	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground	644,514.24	807,153.53	928,420.77
Line transformers	615,546.20	787,613.52	981,754.70
Meters	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant	1,401,175.28	420,108.33	461,651.60
Old plant	341,277.00	619,513.12	1,184,372.86
Total plant	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance	450,887.97	422,350.12	284,653.96
Securities and investments	....	....	....
Accounts receivable	344,487.95	561,873.08	602,920.69
Inventories	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems	....	....	....
Other assets	58,959.93	123,410.97	326,801.11
Total assets	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft	160,919.16	228,622.50	292,106.44
Other liabilities	42,412.81	113,838.66	37,388.31
Total liabilities	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H-E.P.C. systems	....	....	....
For depreciation	478,145.88	850,618.07	1,337,739.73
Other reserves	....	....	....
Total reserves	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid	202,751.26	320,129.10	394,466.22
Local sinking fund	431,747.27	625,217.03	868,983.78
Operating surplus	326,830.66	750,549.35	880,730.55
Total surplus	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets	88.0	88.3	80.3

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

BALANCE SHEET

1916	1917	1918	1919	1920
128	143	166	191	195
$ c.	$ c.	$ c.	$ c.	$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24
1,934,626.12	2,471,293.82	2,820,448.70	2,915,125.56	3,231,050.80
4,832,353.27	6,080,073.42	6,627,237.39	7,445,820.31	8,579,881.49
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29
1,179,132.07	1,483,839.44	1,772,691.35	2,073,114.45	2,560,581.59
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13
2,059,263.42	2,184,015.84	2,395,096.50	2,430,101.08	2,697,636.12
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12
....	....	....	627,076.53	341,855.88
695,152.23	1,285,097.33	1,124,018.44	1,921,166.69	2,022,538.88
764,504.59	1,261,398.36	972,996.96	1,032,569.75	1,400,671.89
1,166,017.73	1,337,578.96	1,663,298.05	1,925,455.77	2,244,004.34
....	....	....	369,071.89	577,584.06
342,215.87	125,240.05	444,787.63	86,216.05	25,447.07
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22
....	....	....	373,871.89	577,584.06
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03
....	....	....	....	....
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,157.52
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
78.4	75.5	71.0	67.9	65.4

CONSOLIDATED

YEAR	1921	1922	1923
Number of municipalities included	215	226	235
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	3,230,985.63	3,334,552.68	4,488,054.93
Substation equipment	5,403,689.90	5,046,857.98	6,015,919.75
Distribution system—overhead	8,397,361.48	11,165,330.24	13,135,581.76
Distribution system—underground	1,401,135.07	1,598,053.02	1,959,120.41
Line transformers	3,077,649.83	3,618,684.73	4,211,655.89
Meters	3,552,076.79	4,033,689.52	4,548,933.73
Street lighting equipment—regular	1,335,997.13	1,419,016.05	1,061,473.85
Street lighting equipment—ornamental	610,586.70	666,084.50	708,431.22
Miscellaneous construction expenses	3,030,134.16	3,261,495.74	3,681,274.88
Steam or hydraulic plant	704,848.46	565,158.54	566,619.86
Old plant	912,388.55	7,997,947.87	8,051,496.28
Total plant	31,565,854.60	42,706,840.87	48,428,562.56
Bank and cash balance	900,842.34	1,164,336.24	1,276,140.06
Securities and investments	556,608.53	443,938.18	1,153,424.47
Accounts receivable	2,148,287.05	3,874,317.14	3,198,769.34
Inventories	1,504,596.28	1,738,795.96	1,819,711.62
Sinking fund on local debentures	2,541,618.35	3,416,231.45	3,896,261.28
Equity in H-E.P.C. systems	795 570.51	1,543,434.12	2,929,603.94
Other assets	78,929.84	238,940.13	190,071.63
Total assets	40,111,979.23	55,126,834.09	62,892,544.90
LIABILITIES			
Debenture balance	21,619,220.99	30,454,186.12	33,056,501.29
Accounts payable	1,887,567.93	3,669,292.52	3,708,781.76
Bank overdraft	989,099.98	456,706.69	680,814.59
Other liabilities	938,368.84	586,203.02	1,517,828.47
Total liabilities	25,434,257.74	35,196,388.35	38,963,826.11
RESERVES			
For equity in H-E.P.C. systems	800,249.05	1,543,434.12	2,929,603.94
For depreciation	5,491,858.93	6,512,813.92	7,328,858.69
Other reserves	....	....	....
Total reserves	6,292,107.98	8,056,248.04	10,258,462.63
SURPLUS			
Debentures paid	1,860,079.53	3,104,591.15	2,852,038.38
Local sinking fund	2,541,618.35	3,416,231.45	3,896,261.28
Operating surplus	3,983,815.63	5,353,375.10	6,921,956.50
Total surplus	8,385,613.51	11,874,197.70	13,670,256.16
Total liabilities, reserves and surplus	40,111,979.23	55,126,834.09	62,892,544.90
Percentage of net debt to total assets	64.7	63.3	62.6

BALANCE SHEET

1924	1925	1926	1927	1928
248	247	251	252	256
$ c.	$ c.	$ c.	$ c.	$ c.
4,561,648.92	5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76
6,800,238.00	8,543,166.55	9,505,501.77	15,038,905.14	16,866,186.21
14,182,190.33	16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68
2,873,446.13	3,388,837.09	3,689,569.95	3,278,382.58	3,559,283.16
4,456,669.02	5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64
5,149,629.71	5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90
1,134,491.77	1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24
728,298.08	893,186.48	1,103,660.23	1,184,035.82	1,293,705.65
4,168,262.21	4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92
4,196,803.45	568,912.49	628,909.57	607,320.00	619,880 93
5,587,420.31	4,549,142.46	4,655,422.59	5,095,555.90	5,032,089 26
53,839,097.93	56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35
1,748,912.34	1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07
1,329,622.58	1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51
3,898,751.89	3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13
1,745,628.16	1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10
4,520,723.06	5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56
250,292.77	137,280.05	33,151.81	31,942.45	153,275.04
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45
38,005,162.50	37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78
3,117,224.08	3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25
162,100.71	226,147.82	163,725.53	252,362.52	253,143.81
1,780,564.27	1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23
43,065,051.56	42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56
8,097,834.68	8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68
....	1,157,147.20	947,970.23	1,002,916.69	1,117,257.63
13,518,402.26	17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87
3,530,610.35	4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61
4,520,723.06	5,202,451.71	5,599,675.01	6,398,909.77	7,071,273.69
8,118,809.08	8,309,074.73	9,317,954.48	10,135,039.22	11,544,489.21
16,170,142.49	17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45
61.4	57.2	55.5	54.2	50.8

CONSOLIDATED BALANCE SHEET—Concluded

YEAR	1929	1930	1931
Number of municipalities included	260	267	275
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	7,469,451.46	7,936,974.31	8,407,664.48
Substation equipment	18,102,792.13	19,485,056.28	21,013,956.74
Distribution system—overhead	18,108,016.82	19,220,326.48	19,918,355.76
Distribution system—underground	4,823,369.60	4,932,189.05	5,361,627.24
Line transformers	7,312,742.17	7,953,090.23	8,649,875.07
Meters	7,405,478.91	7,840,948.07	8,106,202.88
Street lighting equipment—regular	1,594,183.25	1,780,785.67	2,205,613.18
Street lighting equipment—ornamental	1,458,349.64	1,520,891.01	1,456,742.91
Miscellaneous construction expenses	3,483,487.78	3,996,747.77	3,827,132.05
Steam or hydraulic plant	489,097.57	139,587.28	458,374.05
Old plant	5,093,378.75	5,322,690.14	7,146,437.96
Total plant	75,340,348.08	80,129,286.29	86,551,982.32
Bank and cash balance	858,733.68	2,722,250.12	2,738,319.67
Securities and investments	2,001,088.81	1,909,439.11	1,999,846.42
Accounts receivable	4,683,201.97	4,481,006.92	3,957,972.78
Inventories	1,365,033.58	1,242,994.51	1,276,531.01
Sinking fund on local debentures	7,753,613.88	8,396,255.47	8,735,050.84
Equity in H-E.P.C. systems	14,754,865.40	17,346,372.44	20,103,275.76
Other assets	152,260.86	173,030.05	174,879.28
Total assets	106,909,146.26	116,400,634.91	125,537,858.08
LIABILITIES			
Debenture balance	42,930,127.74	45,091,808.06	44,594,400.03
Accounts payable	3,132,145.03	3,001,186.21	5,382,306.13
Bank overdraft	412,056.69	405,663.14	312,575.54
Other liabilities	1,621,378.17	1,642,771.59	1,909,986.13
Total liabilities	48,095,707.63	50,141,429.00	52,199,267.83
RESERVES			
For equity in H-E.P.C. systems	14,754,865.40	17,346,372.44	20,103,275.76
For depreciation	11,911,154.49	12,885,387.51	13,748,049.68
Other reserves	1,437,371.26	1,574,655.74	1,693,129.83
Total reserves	28,103,391.15	31,806,415.69	35,544,455.27
SURPLUS			
Debentures paid	9,194,253.59	10,728,279.15	13,150,040.37
Local sinking fund	7,962,121.20	8,396,255.47	8,735,050.84
Operating surplus	13,553,672.69	15,328,255.60	15,909,043.77
Total surplus	30,710,047.48	34,452,790.22	37,794,134.98
Total liabilities, reserves and surplus	106,909,146.26	116,400,634.91	125,537,858.08
Percentage of net debt to total assets	47.8	46.0	44.1

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

CONSOLIDATED OPERATING REPORT

YEAR	1912	1913	1914	1915
Number of municipalities included	28	45	69	99
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service	....	572,154.38	789,130.81	944,271.08
Commercial light service	....	525,438.16	673,803.92	720,209.26
Commercial power service	....	905,378.17	1,214,829.31	1,501,797.78
Municipal power	....	....	....	....
Street lighting	....	560,925.56	698,409.71	835,970.87
Rural service	....	....	....	....
Miscellaneous	....	53,543.24	57,482.41	68,046.29
Total earnings	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased	....	789,632.87	1,045,752.65	1,485,614.72
Substation operation	....	78,394.81	97,658.90	107,607.31
Substation maintenance	....	18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance	....	104,114.51	130,998.65	154,409.71
Line transformer maintenance	....	8,547.61	11,764.32	11,508.92
Meter maintenance	....	5,222.19	9,536.07	12,899.14
Consumers' premises expenses	....	53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance	....	84,903.76	113,047.80	136,983.38
Promotion of business	....	72,303.51	86,683.02	74,402.55
Billing and collecting	....	77,351.76	103,560.71	131,541.27
General office, salaries and expenses	....	154,932.69	230,899.75	236,777.86
Undistributed expense	....	65,423.64	89,350.91	129,209.15
Interest	....	528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures	....	*	*	*
Total expenses	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

CONSOLIDATED

YEAR	1916	1917	1918
Number of municipalities included	128	143	166
EARNINGS	$ c.	$ c.	$ c.
Domestic service	1,172,878.96	1,417,460.31	1,632,272.12
Commercial light service	812,130.78	899,023.72	968,399.42
Commercial power service	1,921,152.31	2,665,280.65	3,417,248.37
Municipal power	....	....	....
Street lighting	930,057.48	967,495.10	902,875.55
Rural service	....	....	....
Miscellaneous	147,381.50	120,805.39	161,243.70
Total earnings	4,983,601.03	6,070,065.17	7,082,039.16
EXPENSES			
Power purchased	1,959,446.83	2,563,880.17	2,807,769.33
Substation operation	153,761.08	203,091.20	238,257.34
Substation maintenance	46,131.53	42,129.04	60,805.92
Distribution system, operation and maintenance	154,247.17	169,326.24	223,347.81
Line transformer maintenance	14,528.17	25,328.95	30,488.83
Meter maintenance	24,218.48	44,461.55	63,155.56
Consumers' premises expenses	52,602.01	61,765.14	65,149.59
Street lighting, operation and maintenance	145,471.50	157,857.73	196,157.18
Promotion of business	79,324.85	73,516.37	64,962.78
Billing and collecting	154,508.58	188,083.84	208,660.76
General office, salaries and expenses	306,709.35	349,932.05	421,680.15
Undistributed expense	97,333.97	102,938.80	117,474.07
Interest	951,781.99	1,085,180.80	1,238,425.53
Sinking fund and principal payments on debentures	*	*	*
Total expenses	4,140,065.51	5,077,491.08	5,736,334.85
Surplus	843,535.52	992,574.09	1,345,704.31
Depreciation charge	486,141.80	607,296.29	718,162.30
Surplus less depreciation	357,393.72	385,367.80	627,542.01

*Debenture payments included in "Interest."

OPERATING REPORT—Continued

1919	1920	1921	1922	1923
181	186	205	214	224
$ c.	$ c.	$ c.	$ c.	$ c.
1,991,632.31	2,546,345.30	3,149,080.03	3,786,608.23	5,166,452.24
1,175,143.56	1,512,854.63	1,851,501.76	2,158,306.34	3,260,772.50
3,443,107.13	3,752,188.22	3,895,437.46	4,383,912.97	5,927,666.37
....	532,279.09	654,531.01	973,263.38	1,161,598.60
988,900.95	1,005,535.11	1,060,357.77	1,160,446.81	1,269,604.48
....	168,919.95	145,566.57	105,877.09	116,639.06
228,270.65	189,778.63	225,467.70	187,689.39	316,311.21
7,827,054.60	9,707,900.93	10,981,942.30	12,756,104.21	17,219,044.46
3,284,490.68	4,216,667.87	4,876,650.31	6,636,853.37	8,699,026.67
217,638.89	285,407.35	314,838.35	315,443.70	474,442.13
81,853.63	102,050.81	104,798.01	100,763.67	133,815.53
286,310.76	344,551.57	487,918.33	519,252.16	636,477.41
42,509.12	46,323.09	65,088.46	52,932.26	75,920.10
78,726.64	123,701.18	116,722.97	107,806.88	139,104.81
84,301.24	116,283.52	134,854.92	143,388.88	218,682.02
215,963.86	236,930.79	297,481.52	297,363.86	299,579.08
77,789.22	78,294.85	101,804.46	129,932.63	184,371.00
236,504.75	295,942.88	321,685.71	338,153.50	444,306.92
452,131.22	559,695.29	656,268.11	605,852.50	937,463.47
190,690.09	256,400.33	308,874.42	385,895.03	359,206.91
1,285,571.51	1,431,807.16	998,611.47	1,074,657.44	1,615,205.16
*	*	532,183.96	635,469.90	990,907.14
6,531,481.61	8,094,056.69	9,317,781.00	11,343,765.78	15,208,508.35
1,295,572.99	1,613,844.24	1,664,161.30	1,412,338.43	2,010,536.11
814,219.37	902,028.75	1,044,434.85	715,814.24	916,782.75
481,353.62	711,815.49	619,726.45	696,524.19	1,093,753.36

CONSOLIDATED

Year	1924	1925	1926
Number of municipalities included	241	242	248
Earnings	$ c.	$ c.	$ c.
Domestic service	5,993,231.07	6,439,159.86	7,372,602.62
Commercial light service	3,566,227.22	3,866,292.79	4,187,899.19
Commercial power service	6,222,865.88	6,568,854.77	6,789,217.54
Municipal power	1,352,966.47	1,923,093.09	1,922,512.34
Street lighting	1,356,668.97	1,415,382.22	1,457,686.21
Rural service	75,100.24	37,975.18	37,810.73
Miscellaneous	231,663.58	286,451.08	471,134.15
Total earnings	18,798,723.43	20,537,208.99	22,238,862.78
Expenses			
Power purchased	9,669,789.40	11,063,123.34	12,185,669.10
Substation operation	430,056.09	417,921.71	450,416.84
Substation maintenance	202,050.04	207,497.63	286,520.37
Distribution system, operation and maintenance	648,700.62	686,344.54	795,514.70
Line transformer maintenance	82,936.50	75,473.28	74,876.11
Meter maintenance	141,231.23	156,909.55	189,603.70
Consumers' premises expenses	237,316.20	252,808.47	275,020.62
Street lighting, operation and maintenance	269,973.30	275,316.60	295,869.37
Promotion of business	202,060.74	217,102.24	234,696.74
Billing and collecting	490,273.30	521,134.01	557,271.54
General office, salaries and expenses	889,907.66	891,640.29	786,742.60
Undistributed expense	494,078.50	520,584.58	460,288.30
Truck operation and maintenance	....	....	....
Interest	1,779,991.26	1,889,810.95	1,985,233.73
Sinking fund and principal payments on debentures	1,122,798.87	1,294,027.29	1,347,511.92
Total expenses	16,661,163.71	18,469,694.48	19,925,235.64
Surplus	2,137,559.72	2,067,514.51	2,313,627.14
Depreciation charge	973,649.62	1,068,880.42	1,146,273.05
Surplus less depreciation	1,163,910.10	998,634.09	1,167,354.09

OPERATING REPORT—Concluded

1927	1928	1929	1930	1931
251	255	259	267	275
$ c.	$ c.	$ c.	$ c.	$ c.
8,189,866.89	8,925,050.56	9,873,681.57	10,542,903.89	11,478,964.41
4,626,815.51	5,182,723.32	5,697,766.06	5,961,383.23	6,278,074.62
7,342,173.20	8,298,669.44	9,376,158.74	9,340,653.28	9,568,403.74
1,913,502.88	1,921,300.97	2,086,444.24	2,111,482.38	1,967,118.54
1,489,242.37	1,534,476.98	1,598,262.43	1,674,528.03	1,807,973.41
13,765.72	48,451.90*	51,590.54*	28,954.60*	29,446.38*
581,913.04	465,791.92	522,780.95	581,914.78	527,583.78
24,157,279.61	26,376,465.09	29,206,684.53	30,241,820.19	31,657,564.88
13,505,583.77	14,688,570.08	16,379,162.88	17,323,077.97	18,409,304.24
430,211.76	420,512.48	461,270.27	479,502.48	514,356.35
275,148.86	247,647.88	274,275.56	320,716.48	303,536.11
758,747.10	736,159.85	907,817.04	991,972.86	1,031,507.56
94,706.38	88,676.18	93,608.14	96,746.35	97,638.56
214,813.87	218,530.96	242,126.27	278,379.43	293,082.92
285,352.68	291,333.03	314,495.03	317,902.45	384,404.66
318,395.79	329,597.16	359,373.40	372,211.17	378,528.64
220,687.60	249,842.01	250,844.28	249,070.05	260,436.05
605,627.58	638,797.02	695,729.42	745,159.02	830,712.29
824,868.90	844,578.55	904,025.64	907,226.89	949,930.07
531,003.80	542,755.34	502,206.06	523,862.96	546,004.35
....	....	110,630.62	112,029.82	107,918.93
2,063,698.00	2,111,049.49	2,152,695.49	2,220,214.45	2,488,220.49
1,505,626.31	1,601,711.32	1,687,201.64	1,828,061.62	2,081,348.30
21,634,472.40	23,009,761.35	25,335,461.74	26,766,134.00	28,676,929.52
2,522,807.21	3,366,703.74	3,871,222.79	3,475,686.19	2,980,635.36
1,249,711.65	1,350,252.16	1,469,846.83	1,574,991.68	1,793,111.69
1,273,095.56	2,016,451.58	2,401,375.96	1,900,694.51	1,187,523.67

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*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alvinston	Amherst-burg
Popluation	1,951	P.V.	516	657	3,083
Assets	$ c	$ c.	$ c	$ c.	$ c.
Land and buildings	1,545.45	....	....	133.56	....
Substation equipment	1,847.39	....	....	....	932.00
Distribution system—overhead	22,334.52	8,329.91	8,161.11	14,008.12	31,161.65
Distribution system—underground	....	....	....	....	....
Line transformers	11,015.94	3,190.93	3,085.95	3,024.48	14,262.90
Meters	10,355.46	2,328.49	2,571.67	2,939.07	15,157.22
Street light equipment, regular	1,792.54	755.30	404.09	1,090.62	812.44
Street light equipment, ornamental	....	....	....	....	5,598.72
Miscellaneous construction expense	2,670.29	....	503.36	771.18	1,736.17
Steam or hydraulic plant	....	....	....	....	....
Old plant	3,481.50	....	....	773.85	....
Total plant	55,043.09	14,604.63	14,726.18	22,740.88	69,661.10
Bank and cash balance	3,441.64	1,756.47	2,898.09	295.74	14,215.71
Securities and investments	1,500.00	1,000.00	3,000.00	2,000.00	....
Accounts receivable	1,050.32	638.39	347.96	728.39	3,808.80
Inventories	872.13	....	....	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	26,638.12	3,690.99	7,817.08	7,586.70	20,992.59
Other assets	....	45.22	....	....	....
Total assets	88,545.30	21,735.70	28,789.31	33,351.71	108,678.20
Deficit	....	....	....	1,794.84	....
Total	88,545.30	21,735.70	28,789.31	35,146.55	108,678.20
Liabilities					
Debenture balance	1,247.30	4,532.01	455.99	14,492.48	27,717.99
Accounts payable	....	....	....	300.00	....
Bank overdraft	....	....	....	....	....
Other liabilities	333.53	....	55.00	....	7,252.14
Total liabilities	1,580.83	4,532.01	510.99	14,792.48	34,970.13
Reserves					
For equity in H-E.P.C. systems	26,638.12	3,690.99	7,817.08	7,586.70	20,992.59
For depreciation	8,597.57	1,271.15	5,013.27	3,730.61	12,635.08
Other reserves	....	....	....	....	....
Total reserves	35,235.69	4,962.14	12,830.35	11,317.31	33,627.67
Surplus					
Debentures paid	13,252.70	3,540.64	3,778.98	9,036.76	4,335.61
Local sinking fund	....	....	....	....	....
Operating surplus	38,476.08	8,700.91	11,668.99	....	35,744.79
Total surplus	51,728.78	12,241.55	15,447.97	9,036.76	40,080.40
Total liabilities, reserves and surplus	88,545.30	21,735.70	28,789.31	35,146.55	108,678.20
Percentage of net debt to total assets	2.6	25.1	2.4	57.4	35.8

"A"

Hydro Municipalities as at December 31, 1931

Ancaster Twp. 3,119	Arkona 383	Aylmer 1,996	Ayr 776	Baden P.V.	Beachville P.V.	Belle River 715	Blenheim 1,630
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	9,019.23	125.00	660.64	176.13	....	....
....	....	....	....	....	....	....	909.64
14,884.01	9,181.29	20,177.68	12,259.90	6,889.90	13,010.85	14,815.14	23,206.88
....	....	....	....	....	....	....	....
9,641.88	1,513.44	10,356.91	3,850.56	4,048.22	2,356.94	3,651.15	7,751.68
3,964.93	1,643.52	9,236.06	3,492.08	2,807.40	2,988.30	3,303.57	9,757.18
1,171.89	671.60	1,519.27	628.42	447.45	410.35	924.29	3,120.65
....	....	....	....	....	....	....	1,482.97
294.93	242.32	1,162.01	941.79	....	652.04	962.78	1,482.58
....	....	....	....	....	....	....	....
....	1,030.30	6,719.17	4,002.53	....	....	....	....
29,957.64	14,282.47	58,190.33	25,300.28	14,853.61	19,594.61	23,656.93	47,711.58
139.70	55.91	9,099.15	....	3,081.43	2,368.37	3,306.82	4,643.98
....	....	12,000.00	....	....	10,000.00	3,000.00	....
1,347.71	176.97	827.19	956.16	271.78	703.18	976.99	945.32
....	....	54.61	....	....	....	....	....
....	....	....	....	....	....	....	....
6,125.96	2,012.34	17,901.04	6,421.30	16,044.33	19,289.25	3,923.04	16,978.28
....	....	....	517.29	....	....	....	....
37,571.01	16,527.69	98,072.32	33,195.03	34,251.15	51,955.41	34,863.78	70,279.16
....	1,516.48	....	....	....	....	....	....
37,571.01	18,044.17	98,072.32	33,195.03	34,251.15	51,955.41	34,863.78	70,279.16
8,487.20	10,833.15	22,702.99	7,631.46	2,511.55	2,722.46	6,213.02	9,453.92
1,527.15	1,840.00	1,583.45	....	....	....	....	1,508.98
338.81	....	....	96.83	....	....	....	....
139.70	....	55.00	....	....	....	15.00	1,722.97
10,492.86	12,673.15	24,341.44	7,728.29	2,511.55	2,722.46	6,228.02	12,685.87
6,125.96	2,012.34	17,901.04	6,421.30	16,044.33	19,289.25	3,923.04	16,978.28
4,687.26	1,079.00	9,586.27	3,140.83	1,687.87	5,104.04	3,473.93	9,510.15
....	....	....	....	....	....	5,000.00	....
10,813.22	3,091.34	27,487.31	9,562.13	17,732.20	24,393.29	12,396.97	26,488.43
2,302.38	2,279.68	15,998.93	9,871.92	2,488.45	2,630.54	2,286.98	4,546.08
....	....	....	....	....	....	....	....
13,962.55	....	30,244.64	6,032.69	11,518.95	22,209.12	13,951.81	26,558.78
16,264.93	2,279.68	46,243.57	15,904.61	14,007.40	24,839.66	16,238.79	31,104.86
37,571.01	18,044.17	98,072.32	33,195.03	34,251.15	51,955.41	34,863.78	70,279.16
33.4	87.3	30.4	28.9	13.8	8.3	20.1	21.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Blyth	Bolton	Bothwell	Brampton	Brantford
Population	621	609	575	5,137	30,103
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings				5,081.32	82,837.77
Substation equipment				24,742.53	164,656.11
Distribution system—overhead	10,850.60	9,926.41	5,950.67	47,031.62	241,530.26
Distribution system—underground					6,000.00
Line transformers	2,441.35	4,296.34	2,575.37	24,863.92	113,415.33
Meters	1,837.12	2,926.32	2,822.96	25,265.88	112,264.61
Street light equipment, regular	1,284.19	817.19	4,634.70	2,574.56	23,187.42
Street light equipment, ornamental					38,807.62
Miscellaneous construction expense	293.65	1,043.38	528.56	18,668.33	33,127.67
Steam or hydraulic plant					
Old plant	2,332.68	1,554.60			
Total plant	19,039.59	20,564.24	16,512.26	148,228.16	815,826.79
Bank and cash balance	448.85	672.85	1,960.99	842.88	1,275.48
Securities and investments			11,000.00	6,301.56	
Accounts receivable	1,420.61	118.67	274.48	7,260.71	42,906.78
Inventories				218.06	884.66
Sinking fund on local debentures					176,755.65
Equity in H-E.P.C. systems	3,676.77	8,878.96	9,478.92	73,804.62	373,173.29
Other assets					
Total assets	24,585.82	30.234.72	39,226.65	236,655.99	1,410,822 65
Deficit					
Total	24,585.82	30 234.72	39,226.65	236,655.99	1,410,822 65
LIABILITIES					
Debenture balance	10,929.18	7,059.55	3,376.34	18,759.06	409,500.00
Accounts payable	68.93	94.89	1,324.32	3,413.90	2,249.99
Bank overdraft					
Other liabilities	15.00				50,052.81
Total liabilities	11,013.11	7,154.44	4,700.66	22,172.96	461,802.80
RESERVES					
For equity in H-E.P.C. systems	3,676.77	8,878.96	9,478.92	73,804.62	373,173.29
For depreciation	2,026.91	4,174.65	4,914.12	38,842.02	178,634.05
Other reserves			10.00		1,000.00
Total reserves	5,703.68	13,053.61	14,403.04	112,646.64	552,807.34
SURPLUS					
Debentures paid	5,339.85	5,440.45	2,157.85	50,291.58	120,500.00
Local sinking fund					176,755.65
Operating surplus	2,529.18	4,586.22	17,965.10	51,544.81	98,956.86
Total surplus	7,869.03	10,026.67	20,122.95	101,836.39	396,212.51
Total liabilities, reserves and surplus	24,585.82	30,234.72	39,226.65	236,655.99	1,410,822 65
Percentage of net debt to total assets	52.7	33.5	15.8	13.6	30.0

"A"—Continued

Hydro Municipalities as at December 31, 1931

Brantford Twp. 7,595	Bridgeport P.V.	Brigden P.V.	Brussels 725	Burford P.V.	Burgessville, P.V.	Caledonia 1,456	Campbellville, P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	101.03	....	202.00	....	....	....
1,192.71	....	....	....	....	....	....	....
51,537.94	9,152.07	7,066.07	13,433.64	8,678.49	3,366.81	16,016.40	2,954.27
....	....	....	....	....	....	....	....
16,435.10	3,429.46	2,017.09	2,395.35	2,518.08	1,207.84	5,612.06	718.23
11,713.02	2,097.75	2,293.70	3,592.38	3,280.33	935.50	5,691.02	511.99
4,157.36	1,535.39	464.90	1,568.00	425.14	261.02	1,531.34	258.56
....	....	....	....	....	....	....	....
2,914.14	563.56	858.11	1,572.29	644.50	457.22	722.67	6.82
....	....	....	....	....	....	....	....
....	....	1,381.00	2,827.50	....	....	....	....
87,950.27	16,778.23	14,181.90	25,389.16	15,748.54	6,228.39	29,573.49	4,449.87
8,266.68	1,529.71	486.51	474.95	1,801.27	2,544.40	501.94	775.34
643.16	....	....	....	4,000.00	....	2,000.00	1,000.00
544.00	479.89	730.59	192.05	585.92	112.97	118.71	20.55
....	....	....	....	....	....	....	....
2,718.36	....	....	....	....	....	....	....
11,212.02	1,540.59	5,662.74	5,319.78	6,134.36	2,531.45	9,702.73	601.38
....	....	....	....	....	....	....	....
111,334.49	20,328.42	21,061.74	31,375.94	28,270.09	11,417.21	41,896.87	6,847.14
....	....	....	....	....	....	....	....
111,334.49	20,328.42	21,061.74	31,375.94	28,270.09	11,417.21	41,896.87	6,847.14
29,670.86	11,914.39	1,429.18	15,144.96	1,092.60	1,056.29	2,247.74	4,093.28
2,643.51	811.52	554.04	10.38	....	50.84	....	....
....	....	....	....	....	....	....	....
1,310.45	29.98	....	....	5.00	....	....	....
33,624.82	12,755.89	1,983.22	15,155.34	1,097.60	1,107.13	2,247.74	4,093.28
11,212.02	1,540.59	5,662.74	5,319.78	6,134.36	2,531.45	9,702.73	601.38
19,135.84	3,953.84	2,572.79	2,923.51	3,860.41	1,842.83	3,864.69	458.54
....	....	....	....	....	....	....	....
30,347.86	5,494.43	8,235.53	8,243.29	9,994.77	4,374.28	13,567.42	1,059.92
27,454.80	453.64	6,570.82	5,855.04	7,907.40	2,443.71	2,376.26	1,354.49
2,718.36	....	....	....	....	....	....	....
17,188.65	1,624.46	4,272.17	2,122.27	9,270.32	3,492.09	23,705.45	339.45
47,361.81	2,078.10	10,842.99	7,977.31	17,177.72	5,935.80	26,081.71	1,693.94
111,334.49	20,328.42	21,061.74	31,375.94	28,270.09	11,417.21	41,896.87	6,847.14
31.7	67.9	12.9	58.2	5.0	12.5	7.0	65.5

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population	661	16,441	1,222	496	1,911
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings		46,055.45	631.50		7,985.47
Substation equipment		116,194.83			7,544.43
Distribution system—overhead	16,094.68	165,634.06	18,793.02	6,894.15	21,875.76
Distribution system—underground		79,550.54			
Line transformers	2,862.59	86,816.71	5,402.56	1,005.30	7,516.75
Meters	2,443.64	67,924.39	4,702.80	2,079.15	9,155.50
Street light equipment, regular	942.83	17,679.80	1,869.16	670.59	1,297.67
Street light equipment, ornamental		35,426.10			
Miscellaneous construction expense	372.67	33,083.55	1,022.19	37.44	3,909.45
Steam or hydraulic plant					
Old plant		42,752.31			10,658.09
Total plant	22,716.41	691,117.74	32,421.23	10,686.63	69,943.12
Bank and cash balance	638.80	1,705.03		1,146.90	3,613.57
Securities and investments					
Accounts receivable	818.96	22,087.32	820.49	81.05	3,045.56
Inventories	133.28	5,136.02			2,274.69
Sinking fund on local debentures					26,461.26
Equity in H-E.P.C. systems	3,389.41	180,699.00	7,852.98	2,505.97	21,193.98
Other assets					
Total assets	27,696.86	900,745.11	41,094.70	14,420.55	126,532.18
Deficit					
Total	27,696.86	900,745.11	41,094.70	14,420.55	126,532.18
Liabilities					
Debenture balance	15,258.22	273,264.10	7,871.75	7,086.96	44,500.00
Accounts payable	763.02	21,721.31	731.78	350.07	
Bank overdraft			31.26		
Other liabilities		37,997.49			30.22
Total liabilities	16,021.24	332,982.90	8,634.79	7,437.03	44,530.22
Reserves					
For equity in H-E.P.C. systems	3,389.41	180,699.00	7,852.98	2,505.97	21,193.98
For depreciation	2,774.66	99,226.90	5,789.77	1,242.73	17,673.90
Other reserves	252.94	3,288.48			760.67
Total reserves	6,417.01	283,214.38	13,642.75	3,748.70	39,628.55
Surplus					
Debentures paid	4,741.78	96,735.90	5,478.25	913.04	
Local sinking fund					26,461.26
Operating surplus	516.83	187,811.93	13,338.91	2,321.78	15,912.15
Total surplus	5,258.61	284,547.83	18,817.16	3,234.82	42,373.41
Total liabilities, reserves and surplus	27,696.86	900,745.11	41,094.70	14,420.55	126,532.18
Percentage of net debt to total assets	65.9	44.1	26.0	62.4	22.9

"A"—Continued

Hydro Municipalities as at December 31, 1931

Comber P.V.	Cottam P.V.	Courtright 370	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 559	Dresden 1,403
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	523.00
7,188.27	9,055.23	6,515.06	3,303.94	3,782.04	8,038.06	9,262.73	17,495.37
....	....	....	....	....	....	....	....
3,422.04	1,538.31	1,225.40	1,600.44	896.83	3,286.91	2,841.13	7,333.20
2,352.27	1,803.64	880.37	1,340.00	927.94	2,364.81	3,221.69	5,836.85
384.93	359.43	425.08	342.52	148.08	496.74	673.50	1,116.00
....	....	....	....	....	....	....	....
968.54	206.27	558.67	291.87	203.81	328.41	388.37	529.30
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	4,815 01
14,316.05	12,962.88	9,604.58	6,878.77	5,958.70	14,514.93	16,387.42	37,648.73
3,030.59	1,858.72	....	2,617.38	585.89	345.22	1,767.21	264.44
....	....	....	....	2,500.00	2,000.00	6,000.00	2,000.00
....	288.54	341.11	94.49	251.07	928.48	5.01	1,236.97
....	....	....	....	....	....	....	279.84
....	....	....	....	....	....	....	....
9,281.87	1,260.31	2,346.94	4,011.92	1,246.88	3,152.32	5,294.43	14,302.63
....	....	....	....	....	....	....	....
26,628.51	16,370.45	12,292.63	13,602.56	10,542.54	20,940.95	29,454.07	55,732.61
....	....	....	....	....	....	....	....
26,628.51	16,370.45	12,292.63	13,602.56	10,542.54	20,940.95	29,454.07	55,732.61
2,554.79	7,559.61	4,661.77	2,348.50	2,444.03	2,769.12	6,974.74	2,075.97
493.68	....	....	3.42	21.16	....	2,487.99	1,191.85
....	....	34.90	....	....	....	....	....
....	115.00	....	....	....	....	....	95.00
3,048.47	7,674.61	4,696.67	2,351.92	2,465.19	2,769.12	9,462.73	3,362.82
9,281.87	1,260.31	2,346.94	4,011.92	1,246.88	3,152.32	5,294.43	14,302.63
3,719.27	1,759.63	681.15	1,583.50	996.64	928.97	4,189.56	4,761.88
....	....	....	....	....	....	....	....
13,001.14	3,019.94	3,028.09	5,595.42	2,243.52	4,081.29	9,483.99	19,064.51
5,145.21	1,440.61	3,476.58	1,051.50	1,555.97	1,530.88	2,525.26	14,162.28
....	....	....	....	....	....	....	....
5,433.69	4,235.29	1,091.29	4,603.72	4,277.86	12,559.66	7,982.09	19,143.00
10,578.90	5,675.90	4,567.87	5,655.22	5,833.83	14,090.54	10,507.35	33,305.28
26,628.51	16,370.45	12,292.63	13,602.56	10,542.54	20,940.95	29,454.07	55,732.61
17.6	50.8	47.2	24.5	26.5	15.6	39.2	8.1

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population	P.V.	P.V.	5,137	3,412	801
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			9,235.96	3,328.13	
Substation equipment			13,396.22	27,302.17	
Distribution system—overhead	4,331.18	5,787.61	49,443.83	34,614.10	9,349.96
Distribution system—underground					
Line transformers	1,417.47	897.65	19,416.12	15,919.94	3,413.45
Meters	1,764.22	874.11	19,805.04	14,569.51	3,259.83
Street light equipment, regular	253.02	544.86	10,734.33	8,011.99	621.79
Street light equipment, ornamental					
Miscellaneous construction expense	266.20	787.06	8,472.08	5,963.34	338.94
Steam or hydraulic plant					
Old plant			1,867.38	10,717.62	
Total plant	8,032.09	8,891.29	132,370.96	120,426.80	16,983.97
Bank and cash balance	1,637.98	174.08	7,006.40	35.00	
Securities and investments			1,500.00	10,000.00	4,000.00
Accounts receivable	582.07	81.97	3,842.16	6,451.14	645.80
Inventories	91.25		557.10	1,372.17	34.47
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,885.89	2,705.54	67,946.80	24,568.48	8,836.61
Other assets			107.99		
Total assets	13,229.28	11,852.88	213,331.41	162,853.59	30,500.85
Deficit		668.41			
Total	13,229.28	12,521.29	213,331.41	162,853.59	30,500.85
LIABILITIES					
Debenture balance	2,749.77	2,205.49	29,919.51	54,766.47	5,420.12
Accounts payable		1,143.89		8,753.51	
Bank overdraft				3,253.19	104.23
Other liabilities			2,018.29	865.00	11.84
Total liabilities	2,749.77	3,349.38	31,937.80	67,638.17	5,536.19
RESERVES					
For equity in H-E.P.C. systems	2,885.89	2,705.54	67,946.80	24,568.48	8,836.61
For depreciation	2,617.63	2,471.86	35,812.61	20,845.06	4,876.77
Other reserves			250.00		
Total reserves	5,503.52	5,177.40	104,009.41	45,413.54	13,713.38
SURPLUS					
Debentures paid	1,750.23	3,994.51	23,080.49	20,733.53	2,987.37
Local sinking fund					
Operating surplus	3,225.76		54,303.71	29,068.35	8,263.91
Total surplus	4,975.99	3,994.51	77,384.20	49,801.88	11,251.28
Total liabilities, reserves and surplus	13,229.28	12,521.29	213,331.41	162,853.59	30,500.85
Percentage of net debt to total assets	26.6	36.6	22.0	48.9	25.6

"A"—Continued

Hydro Municipalities as at December 31, 1931

East Windsor 16,203	East York Twp. 30,556	Elmira 2,940	Elora 1,306	Embro 443	Erieau 202	Erie Beach 23	Essex 1,880
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	16,946.49	6,148.80	1,524.54	....	....	....	....
....	8,217.77	....	....	....	....	....	....
165,159.97	267,742.72	34,385.13	16,831.38	8,878.99	9,066.67	1,866.97	35,702.89
....	....	....	....	....	....	....	442.55
75,590.20	64,114.29	15,990.08	7,301.95	2,847.45	1,280.72	613.17	14,177.76
60,609.65	131,960.59	12,672.11	5,680.92	2,012.55	2,081.09	696.24	10,199.18
....	19,923.78	1,253.52	1,119.21	491.90	241.10	....	1,503.60
89,295.42	....	....	....	....	....	....	....
3,439.78	16,941.83	4,622.63	1,414.10	69.45	379.90	375.03	2,942.96
....	....	....	....	....	....	....	....
....	....	2,168.08	1,425.47	429.25	....	....	....
394,095.02	525,847.47	77,240.35	35,297.57	14,729.59	13,049.48	3,551.41	64,968.94
....	1,307.80	291.72	1,642.14	1,157.46	57.21	82.33	919.97
....	3,044.68	....	5,000.00	....	....	....	5,000.00
74,031.18	25,830.92	5,208.47	641.42	984.63	212.68	164.46	4,141.47
....	7,505.83	104.24	711.44	....	....	....	....
....	....	....	....	....	....	....	....
99,513.31	79,123.33	38,848.19	18,607.91	5,300.72	2,031.91	542.42	12,074.22
683.08	....	....	45.00	....	....	....	....
568,322.59	642,660.03	121,692.97	61,945.48	22,172.40	15,351.28	4,340.62	87,104.60
....	....	....	....	....	....	8.86	....
568,322.59	642,660.03	121,692.97	61,945.48	22,172.40	15,351.28	4,349.48	87,104.60
111,770.47	288,355.57	30,482.59	5,177.58	4,060.53	5,171.70	2,794.37	19,932.12
8,120.45	17,781.47	2,564.08	1.00	135.95	1,286.28	287.70	1,141.58
....	10,111.67	....	....	....	....	....	....
89,295.42	11,629.62	524.65	45.00	....	....	....	591.42
209,186.34	327,878.33	33,571.32	5,223.58	4,196.48	6,457.98	3,082 07	21,665.12
99,513.31	79,123.33	38,848.19	18,607.91	5,300.72	2,031.91	542.42	12,074.22
40,435.71	43,516.90	12,428.27	9,812.82	4,061.42	1,291.50	219.36	8,125.69
803.46	1,228.87	....	....	....	....	....	....
140,752.48	123,869.10	51,276.46	28,420.73	9,362.14	3,323.41	761.78	20,199.91
37,229.53	68,712.21	9,517.41	7,822.42	3,439.47	1,711.43	505.63	2,567.88
....	....	....	....	....	....	....	....
181,154.24	122,200.39	27,327.78	20,478.75	5,174.31	3,858.46	....	42,671.69
218,383.77	190,912.60	36,845.19	28,301.17	8,613.78	5,569.89	505.63	45,239.57
568,322.59	642,660.03	121,692.97	61,945.48	22,172.40	15,351.28	4,349.48	87,104.60
31.6	58.2	40.5	12.0	24.9	48.4	81.1	28.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population	15,050	1,606	2,465	833	1,405
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	25,409.58	3,281.59			6,292.40
Substation equipment					
Distribution system—overhead	255,793.05	24,401.94	32,177.05	10,395.18	19,883.53
Distribution system—underground					
Line transformers	61,288.90	10,379.45	15,075.95	4,408.80	9,452.79
Meters	47,101.20	7,829.79	11,338.65	4,331.41	8,998.56
Street light equipment, regular	9,619.96	932.04	1,876.77	991.84	2,369.94
Street light equipment, ornamental	2,689.44				
Miscellaneous construction expense	5,027.29	2,498.68	1,496.19	3,684.64	1,259.66
Steam or hydraulic plant					
Old plant			2,546.59		11,042.87
Total plant	406,929.42	49,323.49	64,511.20	23,811.87	59,299.75
Bank and cash balance	3,332.26	4,051.53	1,162.00	733.31	2,430.15
Securities and investments		6,000.00			7,500.00
Accounts receivable	20,746.27	2,310.39	1,082.00	376.35	3,657.79
Inventories	54.02	3,225.52	66.54		2,211.89
Sinking fund on local debentures					
Equity in H-E.P.C. systems	67,607.21	18,569.49	21,767.32	1,910.76	12,750.43
Other assets	6,702.54		116.66		
Total assets	505,371.72	83,480.42	88,705.72	26,832.29	87,850.01
Deficit					
Total	505,371.72	83,480.42	88,705.72	26,832.29	87,850.01
LIABILITIES					
Debenture balance	207,906.79	10,086.36	23,977.95	18,891.30	12,740.42
Accounts payable	25,866.43		3,596.59	849.80	
Bank overdraft					
Other liabilities	4,755.12	33.25	10.00	190.62	30.06
Total liabilities	238,528.34	10,119.61	27,584.54	19,931.72	12,770.48
RESERVES					
For equity in H-E.P.C. systems	67,607.21	18,569.49	21,767.32	1,910.76	12,750.43
For depreciation	46,335.74	9,652.35	5,748.10	1,159.13	11,297.69
Other reserves		91.75			50.00
Total reserves	113,942.95	28,313.59	27,515.42	3,069.89	24,098.12
SURPLUS					
Debentures paid	57,788.61	9,913.69	18,022.05	3,608.70	21,659.58
Local sinking fund					
Operating surplus	95,111.82	35,133.53	15,583.71	221.98	29,321.83
Total surplus	152,900.43	45,047.22	33,605.76	3,830.68	50,981.41
Total liabilities, reserves and surplus	505,371.72	83,480.42	88,705.72	26,832.29	87,850.01
Percentage of net debt to total assets	54.2	15.6	41.2	80.0	17.0

"A"—Continued

Hydro Municipalities as at December 31, 1931

Galt 13,752	George-town 1,997	Glencoe 779	Goderich 4,113	Granton P.V.	Guelph 20,393	Hagers-ville 1,265	Hamilton 144,529
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
200,047.01	12.00	...	12,957.48	...	13,380.18	...	693,801.97
113,502.02	...	...	34,402.48	...	138,284.16	864.37	1,007,924.22
225,232.14	29,689.31	20,633.54	62,419.64	4,158.86	179,989.01	19,346.66	986,885.93
...	...	...	...	...	...	...	576,072.73
117,223.45	18,111.46	6,311.20	19,972.60	1,533.55	83,088.61	9,751.82	566,764.58
70,850.94	12,665.82	4,205.38	16,869.43	1,522.86	88,859.09	8,227.03	540,615.43
72,648.73	1,362.22	1,714.63	4,825.17	163.37	41,192.61	976.69	194,063.61
...	...	...	...	...	...	...	...
24,973.80	2,644.00	3,654.60	5,467.07	113.08	15,149.32	1,311.68	208,208.67
...	...	...	...	...	...	...	...
...	2,209.80	...	14,622.15	...	...	...	2,153,197.23
824,478.09	66,694.61	36,519.35	171,536.02	7,491.72	559,942.98	40,478.25	6,927,534.37
175.00	2,867.13	1,872.48	4,303.47	2,467.09	14,840.67	11,301.81	537,823.28
...	8,432.41	...	500.00	2,000.00	...	7,000.00	...
54,786.35	1,405.86	1,692.70	3,769.12	46.11	33,709.68	1,424.78	423,360.82
14,681.38	346.43	...	1,365.45	...	33,113.50	39.37	104,372.87
143,742.50	...	...	...	...	38,956.44	...	557,477.75
255,978.78	44,271.77	8,247.49	56,926.13	3,885.20	298,188.39	39,188.12	1,561,044.41
2,088.45	...	...	...	...	...	...	22,101.97
1,295,930.55	124,018.21	48,332.02	238,400.19	15,890.12	978,751.66	99,432.33	10,133,715.47
...	...	...	...	...	...	...	...
1,295,930.55	124,018.21	48,332.02	238,400.19	15,890.12	978,751.66	99,432.33	10,133,715.47
385,106.52	12,181.52	10,471.57	54,448.17	2,363.54	61,409.87	3,896.43	3,547,754.54
13,749.23	141.40	...	3,654.00	616.83	18,580.74	...	2,458,371.18
35,246.99	...	...	...	...	...	...	...
6,885.92	3,170.77	...	1,518.49	...	2,584.28	...	152,965.61
440,988.66	15,493.69	10,471.57	59,620.66	2,980.37	82,574.89	3,896.43	6,159,091.33
255,978.78	44,271.77	8,247.49	56,926.13	3,885.20	298,188.39	39,188.12	1,561,044.41
205,812.62	16,865.62	5,236.31	48,264.09	1,701.61	45,814.60	6,751.45	674,652.31
31,084.29	...	...	1,055.77	...	663.44	...	174,750.36
492,875.69	61,137.39	13,483.80	106,245.99	5,586.81	344,666.43	45,939.57	2,410,447.08
132,895.43	7,818.48	9,641.31	41,639.88	1,136.46	83,590.12	4,103.57	671,270.58
143,742.50	...	...	...	...	38,956.44	...	557,477.75
85,428.27	39,568.65	14,735.34	30,893.66	6,186.48	428,963.78	45,492.76	335,428.73
362,066.20	47,387.13	24,376.65	72,533.54	7,322.94	551,510.34	49,596.33	1,564,177.06
1,295,930.55	124,018.21	48,332.02	238,400.19	15,890.12	978,751.66	99,432.33	10,133,715.47
33.2	19.4	26.1	32.9	24.8	6.8	6.5	69.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Harriston	Harrow	Hensall	Hespeler	Highgate
Population	1,325	830	727	2,769	315
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	....	4,474.73	....
Substation equipment	600.00	....	....	29,732.13	....
Distribution system—overhead	21,808.90	15,819.53	12,370.10	29,940.42	6,245.89
Distribution system—underground	....	....	....	....	....
Line transformers	7,416.42	9,615.23	4,428.42	20,413.30	2,109.25
Meters	6,882.45	5,546.82	3,379.00	12,181.95	1,687.60
Street light equipment, regular	1,141.41	733.84	612.83	6,850.86	430.26
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	1,174.96	95.42	576.95	715.43	551.98
Steam or hydraulic plant	....	....	....	....	....
Old plant	1,001.43	....	400.00	....	....
Total plant	40,025.57	31,810.84	21,767.30	104,308.82	11,024.98
Bank and cash balance	....	1,454.99	5,515.91	....	1,816.58
Securities and investments	....	....	....	....	2,337.60
Accounts receivable	155.51	670.14	500.99	7,404.63	63.19
Inventories	....	....	4.22	407.10	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	15,267.24	7,819.94	6,605.34	42,369.55	4,891.18
Other assets	....	....	....	....	....
Total assets	55,448.32	41,755.91	34,393.76	154,490.10	20,133.53
Deficit	....	....	....	....	....
Total	55,448.32	41,755.91	34,393.76	154,490.10	20,133.53
LIABILITIES					
Debenture balance	12,448.77	9,261.93	7,988.57	40,226.73	3,373.60
Accounts payable	4,280.99	1,532.08	688.05	91.67	87.85
Bank overdraft	2,915.23	....	....	714.93	....
Other liabilities	....	415.00	40.50	32.80	....
Total liabilities	19,644.99	11,209.01	8,717.12	41,066.13	3,461.45
RESERVES					
For equity in H-E.P.C. systems	15,267.24	7,819.94	6,605.34	42,369.55	4,891.18
For depreciation	3,809.67	696.23	4,607.73	8,829.55	2,649.12
Other reserves	....	....	....	....	....
Total reserves	19,076.91	8,516.17	11,213.07	51,199.10	7,540.30
SURPLUS					
Debentures paid	13,369.26	2,738.07	4,011.43	37,343.78	1,626.40
Local sinking fund	....	....	....	....	....
Operating surplus	3,357.16	19,292.66	10,452.14	24,881.09	7,505.38
Total surplus	16,726.42	22,030.73	14,463.57	62,224.87	9,131.78
Total liabilities, reserves and surplus	55,448.32	41,755.91	34,393.76	154,490.10	20,133.53
Percentage of net debt to total assets	48.9	33.0	31.4	36.6	22.7

"A"—Continued

Hydro Municipalities as at December 31, 1931

Humberstone 1,926	Ingersoll 5,150	Jarvis 479	Kingsville 2,200	Kitchener 30,274	Lambeth P.V.	La Salle 574	Leamington 5,313
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	15,064.45	....	7,774.09	99,012.44	....	....	16,202.11
....	25,374.39	....	....	213,980.95	....	....	7,085.62
25,879.05	53,645.57	9,034.30	30,973.91	303,370.77	6,884.86	18,714.13	48,396.09
....	....	....	....	37,043.81	....	....	9,514.36
9,181.25	25,982.43	2,526.96	12,536.28	164,676.46	1,883.12	6,716.60	22,141.10
7,966.05	24,678.73	2,253.40	12,268.59	170,436.41	2,112.07	4,130.47	22,001.54
884.80	3,533.12	846.99	1,384.89	61,506.62	269.16	946.49	1,380.13
....	4,597.59	....	19,200.00	86,939.84	....	....	15,178.49
2,910.22	11,484.81	536.27	226.97	16,676.49	300.71	1,917.19	1,696.80
....	....	....	....	....	....	....	....
....	19,586.39	....	....	52,363.91	....	....	....
46,821.37	183,947.48	15,197.92	84,364.73	1,206,007.70	11,449.92	32,424.88	143,596.24
5,141.80	825.29	2,670.83	4,622.28	75.00	1,749.18	5,624.21	5,358.89
....	10,883.90	....	8,000.00	15,000.00	....	....	11,000.00
387.96	7,902.43	423.51	2,835.34	78,364.62	829.71	1,181.37	781.02
....	2,022.38	....	....	19,686.71	....	....	....
....	58,833.59	....	....	....	....	....	....
7,090.12	84,616.91	5,890.74	16,471.37	565,714.79	4,158.97	4,888.00	27,929.24
....	....	....	....	....	....	....	....
59,441.25	349,031.98	24,183.00	116,293.72	1,884,848.82	18,187.78	44,118.46	188,665.39
....	....	....	....	....	....	....	....
59,441.25	349,031.89	24,183.00	116,293.72	1,884.848.82	18,187.78	44,118.46	188,665.39
21,600.00	79,800.00	7,572.54	29,943.21	237,423.84	2,701.06	12,560.87	37,047.23
423.55	5,345.23	671.65	3,137.24	43,973.15	1,054.38	891.92	3,143.02
....	....	....	....	22,945.49	....	....	....
880.29	4,845.09	....	20,426.53	86,939.84	....	502.21	17,246.27
22,903.84	89,990.32	8,244.19	53,506.98	391,282.32	3,755.44	13,955.00	57,436.52
7,090.12	84,616.91	5,890.74	16,471.37	565,714.79	4,158.97	4,888.00	27,929.24
3,429.87	10,652.35	1,847.97	13,206.73	211,522.81	2,240.96	3,690.44	14,622.78
....	1,071.48	....	....	19,641.16	....	....	....
10,519.99	96,340.74	7,738.71	29,678.10	796,878.76	6,399.93	8,578.44	42,552.02
10,400.00	....	2,927.46	3,556.79	274,726.16	1,298.94	2,939.13	10,952.77
....	58,833.59	....	....	....	....	....	....
15,617.42	103,867.33	5,272.64	29,551.85	421,961.58	6,733.47	18,645.89	77,724.08
26,017.42	162,700.92	8,200.10	33,108.64	696,687.74	8,032.41	21,585.02	88,676.85
59.441.25	349,031.98	24,183.00	116,293.72	1,884,848.82	18,187.78	44,118.46	188,665.39
43.8	13.2	45.1	42.6	23.1	26.8	35.6	29.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Listowel	London	London Twp.	Long Branch P.V.	Lucan
Population	2,712	69,742	7,932		588
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,416.07	449,250.66	....	....	....
Substation equipment	....	924,660.49	....	....	....
Distribution system—overhead	37,595.05	748,232.64	16,629.68	50,201.26	10,464.48
Distribution system—underground	2,802.50	245,932.50	....	....	....
Line transformers	17,020.03	273,298.96	5,570.60	11,499.67	4,131.49
Meters	15,510.62	309,892.94	3,697.62	15,657.07	3,071.22
Street light equipment, regular	1,831.02	66,431.59	849.26	3,343.14	410.87
Street light equipment, ornamental	1,348.66	84,746.73	....	....	....
Miscellaneous construction expense	2,553.96	96,788.05	478.71	1,220.51	484.77
Steam or hydraulic plant	....	....	....	....	....
Old plant	4,745.30	....	1,733.80	....	2,860.45
Total plant	84,823.21	3,199,234.56	28,959.67	81,921.65	21,423.28
Bank and cash balance	7,597.11	30,692.50	4,538.96	....	1,349.07
Securities and investments	....	....	....	....	5,000.00
Accounts receivable	579.86	237,418.71	2,663.81	2,099.37	491.52
Inventories	....	93,686.68	....	....	....
Sinking fund on local debentures	....	325,742.49	....	....	....
Equity in H-E.P.C. systems	31,878.42	1,016,783.11	5,277.04	1,693.80	9,502.84
Other assets	140.72	....	....	....	....
Total assets	125,019.32	4,903,558.05	41,439.48	85,714.82	37,766.71
Deficit	....	....	....	....	....
Total	125,019.32	4,903,558.05	41,439.48	85,714.82	37,766.71
Liabilities					
Debenture balance	11,040.78	1,062,660.56	12,884.20	28,699.22	4,829.39
Accounts payable	2,762.70	182,157.04	2,303.48	7,886.32	41.81
Bank overdraft	....	....	....	....	....
Other liabilities	1,504.38	84,746.73	60.00	1,926.50	120.00
Total liabilities	15,307.86	1,329,564.33	15,247.68	38,512.04	4,991.20
Reserves					
For equity in H-E.P.C. systems	31,878.42	1,016,783.11	5,277.04	1,693.80	9,502.84
For depreciation	22,363.02	709,001.11	3,089.99	10,769.37	5,916.45
Other reserves	....	66,944.12	....	....	....
Total reserves	54,241.44	1,792,728.34	8,367.03	12,463.17	15,419.29
Surplus					
Debentures paid	32,149.11	519,239.44	6,115.80	11,605.38	6,384.23
Local sinking fund	....	325,742.49	....	....	....
Operating surplus	23,320.91	936,283.45	11,708.97	23,134.23	10,971.99
Total surplus	55,470.02	1,781,265.38	17,824.77	34,739.61	17,356.22
Total liabilities, reserves and surplus	125,019.32	4,903,558.05	41,439.48	85,714.82	37,766.71
Percentage of net debt to total assets	15.2	25.8	42.2	45.8	17.7

"A"—Continued

Hydro Municipalities as at December 31, 1931

Lynden P.V.	Markham 931	Merlin P.V.	Merritton 2,596	Milton 1,775	Milverton 981	Mimico 6,108	Mitchell 1,593
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
241.18	....	....	2,951.67	....	237.20	14,321.10	12,649.72
....	....	....	32,689.04	11,868.94	....	38,196.44	21,287.83
4,721.67	14,345.02	8,042.18	33,865.42	20,220.36	11,335.41	69,861.02	28,433.05
....	....	....	....	....	....	....	....
2,134.21	7,090.76	3,274.17	6,177.28	13,578.20	7,565.80	25,909.82	7,933.61
1,496.46	5,283.25	2,235.70	9,255.91	12,640.85	4,951.19	26,069.38	11,441.31
324.16	648.65	555.64	4,412.98	1,275.61	737.16	7,314.89	2,469.33
....	....	....	....	....	....	....	....
193.57	1,558.86	455.36	2,428.96	4,205.66	876.41	4,376.75	847.27
....	....	....	....	....	....	....	....
....	....	241.85	....	3,092.54	....	....	1,500.00
9,111.25	28,926.54	14,804.90	91,781.26	66,882.16	25,703.17	186,049.40	86,562.12
605.66	136.70	2,540.13	7,202.61	12,825.80	50.00	....	5,254.36
....	2,437.17	6,000.00	....	....	3,000.00	....	2,500.00
283.28	1,148.05	975.28	423.43	9,775.79	....	3,958.57	6,853.23
....	....	....	....	7,045.74	....	....	2,890.50
....	....	....	....	....	....	....	....
7,232.55	6,930.73	5,881.81	34,523.09	53,576.85	23,298.17	57,608.49	20,346.08
....	....	....	....	....	....	1,227.01	....
17,232.74	39,579.19	30,202.12	133,930.39	150,106.34	52,051.34	248,843.47	124,406.29
....	....	....	....	....	....	....	....
17,232.74	39,579.19	30,202.12	133,930.39	150,106.34	52,051.34	248,843.47	124,406.29
2,966.23	1,965.35	9,026.82	22,992.89	9,506.39	2,785.23	73,190.82	....
154.99	61.05	1,233.19	453.46	1,728.72	1,298.23	11,626.55	1,942.29
....	....	....	....	....	458.55	1,835.34	....
....	15.00	....	....	....	....	3,945.00	20.00
3,121.22	2,041.40	10,260.01	23,446.35	11,235.11	4,542.01	90,597.71	1,962.29
7,232.55	6,930.73	5,881.81	34,523.09	53,576.85	23,298.17	57,608.49	20,346.08
1,926.13	4,305.55	1,648.70	3,837.23	12,595.35	3,902.61	32,956.77	28,050.85
....	....	....	....	195.44	....	360.00	....
9,158.68	11,236.28	7,530.51	38,360.32	66,367.64	27,200.78	90,925.26	48,396.93
1,528.77	9,408.28	4,337.39	9,193.32	23,206.59	6,714.77	33,809.18	22,295.22
....	....	....	....	....	....	....	....
3,424.07	16,893.23	8,074.21	62,930.40	49,297.00	13,593.78	33,511.32	51,751.85
4,952.84	26,301.51	12,411.60	72,123.72	72,503.59	20,308.55	67,320.50	74,047.07
17,232.74	39,579.19	30,202.12	133,930.39	150,106.34	52,051.34	248,843.47	124,406.29
31.2	6.3	42.2	23.6	11.6	15.8	47.4	1.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Moorefield P.V.	Mount Brydges P.V.	Newbury 291	New Hamburg 1,409	New Toronto 6,310
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and Buildings				2,513.19	43,741.58
Substation equipment				1,167.55	
Distribution system—overhead	2,980.96	6,233.15	6,422.17	23,411.57	74,594.81
Distribution system—underground					8,605.69
Line transformers	990.72	1,709.69	1,767.86	7,150.37	27,509.18
Meters	1,148.22	2,183.48	1,168.37	8,789.74	27,359.16
Street light equipment, regular	295.88	629.66	817.42	2,065.70	9,602.47
Street light equipment, ornamental					
Miscellaneous construction expense	348.35	152.82	485.13	1,324.33	8,213.22
Steam or hydraulic plant					
Old plant			348.22	5,242.56	
Total plant	5,764.13	10,908.80	11,009.17	51,665.01	199,626.11
Bank and cash balance	2,209.99	3,248.09	987.21		
Securities and investments		2,000.00			
Accounts receivable	19.20	1,117.03	1.97	1,291.92	7,649.09
Inventories				1,076.68	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,830.90	3,034.90	1,878.28	23,652.19	186,665.92
Other assets					4,406.84
Total assets	10,824.22	20,308.82	13,876.63	77,685.80	398,347.96
Deficit					
Total	10,824.22	20,308.82	13,876.63	77,685.80	398,347.96
LIABILITIES					
Debenture balance	1,905.24	2,647.25	5,400.00	8,322.79	4,612.53
Accounts payable	280.62			224.27	6.51
Bank overdraft				2,525.94	6,880.63
Other liabilities				79.00	4,406.84
Total liabilities	2,185.86	2,647.25	5,400.00	11,152.00	15,906.51
RESERVES					
For equity in H-E.P.C. systems	2,830.90	3,034.90	1,878.28	23,652.19	186,665.92
For depreciation	1,734.04	1,653.44	1,801.13	9,840.59	33,362.12
Other reserves				192.35	2,727.82
Total reserves	4,564.94	4,688.34	3,679.41	33,685.13	222,755.86
SURPLUS					
Debentures paid	2,594.76	1,572.75	4,354.39	9,406.29	3,387.47
Local sinking fund					
Operating surplus	1,478.66	11,400.48	442.83	23,442.38	156,298.12
Total surplus	4,073.42	12,973.23	4,797.22	32,848.67	159,685.59
Total liabilities, reserves and surplus	10,824.22	20,308.82	13,876.63	77,685.80	398,347.96
Percentage of net debt to total assets	27.3	15.3	45.0	20.6	7.5

"A"—Continued

Hydro Municipalities as at December 31, 1931

Niagara Falls 18,539	Niagara on-the-Lake 1,633	North York Twp. 11,006	Norwich 1,101	Oil Springs 445	Otterville P.V.	Palmerston 1,758	Paris 4,205
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
132,198.34	2,307.35	28,238.33	4,157.99	1,292.23	....	....	8,133.56
228,632.76	16,048.36	....	....	....	....	691.88	27,914.17
190,679.07	26,038.39	296,708.61	10,514.97	12,289.07	5,393.43	26,111.46	51,276.87
....	....	....	....	....	....	....	....
155,754.54	6,298.05	68,911.58	6,089.50	5,386.13	2,670.00	8,810.81	19,330.59
110,893.86	7,088.66	37,071.61	6,697.29	3,275.37	2,227.30	8,954.57	18,622.66
118,580.91	1,230.44	13,616.66	4,685.64	305.72	1,338.28	2,107.48	13,479.95
....	....	....	....	....	....	....	....
12,743.80	1,933.40	16,006.77	1,788.37	2,859.19	142.00	2,008.76	499.51
....	....	....	....	....	....	....	....
21,722.55	....	....	3,509.82	....	....	4,018.71	....
971,205.83	60,944.65	460,553.56	37,443.58	25,407.71	11,771.01	52,703.67	139,257.31
29,238.90	244.16	2,644.47	1,234.25	2,222.79	6,041.14	....	5,328.22
....	....	....	3,000.00	685.92	....	....	6,000.00
7,425.43	1,817.67	9,109.88	1,721.60	316.79	1,061.10	47.69	2,407.13
110.28	1,608.83	....	1,471.98	....	....	....	....
....	....	....	....	....	....	....	23,317.65
258,025.19	12,559.20	29,587.91	17,626.88	12,165.18	3,606.24	19,083.01	53,319.39
2,548.83	....	3,957.26	....	....	....	144.46	....
1,268,554.46	77,174.51	505,853.08	62,498.29	40,798.39	22,479.49	71,978.83	229,629.70
....	....	....	....	....	....	....	....
1,268,554.46	77,174.51	505,853.08	62,498.29	40,798.39	22,479.49	71,978.83	229,629.70
399,095.15	23,206.86	320,859.08	7,128.73	7,137.81	1,359.49	5,788.55	35,817.88
13,666.32	1,951.56	847.88	....	358.83	426.79	2,799.05	....
....	....	....	....	....	....	1,084.92	....
14,180.06	....	57,431.03	63.50	....	....	142.50	....
426,941.53	25,158.42	379,137.99	7,192.23	7,496.64	1,786.28	9,815.02	35,817.88
258,025.19	12,559.20	29,587.91	17,626.88	12,165.18	3,606.24	19,083.01	53,319.39
101,914.54	6,064.32	36,283.69	3,464.81	4,911.66	3,175.07	5,500.63	49,862.41
5,201.79	....	....	1,000.00	....	....	534.45	....
365,141.52	18,623.52	65,871.60	22,091.69	17,076.84	6,781.31	25,118.09	103,181.80
291,147.85	13,294.56	42,162.79	6,627.27	9,583.50	3,140.51	21,211.45	56,182.12
....	....	....	....	....	....	....	23,317.65
185,323.56	20,098.01	18,680.70	26,587.10	6,641.41	10,771.39	15,834.27	11,130.25
476,471.41	33,392.57	60,843.49	33,214.37	16,224.91	13,911.90	37,045.72	90,630.02
1,268,554.46	77,174.51	505,853.08	62,498.29	40,798.39	22,479.49	71,978.83	229,629.70
42.2	38.9	77.5	16.0	26.2	9.5	18.6	8.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Parkhill	Petrolia	Plattsville	Point Edward	Port Colborne
Population	968	2,532	P.V.	1,232	6,202
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings		900.00			22,561.01
Substation equipment		2,403.55			
Distribution system—overhead	15,886.04	40,450.44	3,764.40	20,068.72	85,572.97
Distribution system—underground					
Line transformers	4,357.17	25,580.57	1,252.37	5,773.49	23,392.21
Meters	3,975.46	14,870.18	1,843.98	4,776.50	21,384.18
Street light equipment, regular	898.23	4,849.35	147.15	2,985.52	4,520.69
Street light equipment, ornamental					16,611.59
Miscellaneous construction expense	1,464.19	6,264.86	535.92	503.14	6,878.35
Steam or hydraulic plant					
Old plant		3,389.94			9,929.60
Total plant	26,581.09	98,708.89	7,543.82	34,107.37	190,850.60
Bank and cash balance	591.37	849.46	145.94		8,406.55
Securities and investments		8,400.00		13,000.00	
Accounts receivable	652.67	4,126.24	778.58	2,688.23	7,633.85
Inventories		948.52			3,437.79
Sinking fund on local debentures					
Equity in H-E.P.C. systems	7,912.41	47,049.97	4,145.21	20,045.75	37,787.73
Other assets					20.00
Total assets	35,737.54	160,083.08	12,613.55	69,841.35	248,136.52
Deficit					
Total	35,737.54	160,083.08	12,613.55	69,841.35	248,136.52
LIABILITIES					
Debenture balance	7,976.47	28,602.35	3,200.24	9,833.06	106,603.50
Accounts payable	135.79			342.65	4,792.78
Bank overdraft				53.02	
Other liabilities	48.00	380.00		947.31	18,001.59
Total liabilities	8,160.26	28,982.35	3,200.24	11,176.04	129,397.87
RESERVES					
For equity in H-E.P.C. systems	7,912.41	47,049.97	4,145.21	20,045.75	37,787.73
For depreciation	3,893.32	22,091.26	2,319.33	7,609.27	22,647.38
Other reserves					500.00
Total reserves	11,805.73	69,141.23	6,464.54	27,655.02	60,935.11
SURPLUS					
Debentures paid	6,653.55	21,397.65	2,036.76	7,166.94	39,396.50
Local sinking fund					
Operating surplus	9,118.00	40,561.85	912.01	23,843.35	18,407.04
Total surplus	15,771.55	61,959.50	2,948.77	31,010.29	57,803.54
Total liabilities, reserves and surplus	35,737.54	160,083.08	12,613.55	69,841.35	248,136.52
Percentage of net debt to total assets	29.3	25.6	37.8	22.4	58.2

"A"—Continued

Hydro Municipalities as at December 31, 1931

Port Credit 1,600	Port Dalhousie 1,555	Port Dover 1,625	Port Rowan 558	Port Stanley 693	Preston 6,171	Princeton P.V.	Queenston P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
675.00	....	248.75	....	1,570.80	....	....	....
....	....	....	....	....	50,602.15	....	....
23,695.89	17,926.72	29,334.58	9,528.07	19,845.65	89,688.07	4,057.27	7,205.06
....	....	....	....	....	....	....	....
8,592.13	8,179.09	10,234.36	1,676.62	9,763.53	48,189.01	2,473.48	1,759.85
8,844.81	9,169.42	6,635.42	1,751.55	8,199.79	39,179.37	1,223.65	1,536.99
4,898.26	1,041.19	2,537.31	888.04	1,517.88	5,425.03	176.10	422.43
....	....	....	....	....	....	....	....
913.99	2,683.98	2,579.05	681.53	6,119.30	6,868.88	64.35	2,081.11
....	....	....	....	....	....	....	....
....	6,018.38	....	....	577.51	32,126.75	....	....
47,620.08	45,018.78	51,569.47	14,525.81	47,594.46	272,079.26	7,994.85	13,005.44
5,210.71	750.17	155.33	962.86	1,143.88	....	588.82	51.25
....	3,000.00	....	....	3,000.00	6,000.00	....	....
1,408.86	2,659.21	2,207.97	1,424.45	661.72	19,208.48	1,435.45	254.40
....	....	....	....	....	192.94	....	....
....	2,187.61	....	....	....	....	....	....
14,974.51	12,693.36	9,413.45	2,397.19	17,795.02	128,864.76	3,277.97	2,967.86
252.51	....	....	....	....	....	....	....
69,466.67	66,309.13	63,346.22	19,310.31	70,195.08	426,345.44	13,297.09	16,278.95
....	....	....	6,448.71	....	....	....	....
69,466.67	66,309.13	63,346.22	25,759.02	70,195.08	426,345.44	13,297.09	16,278.95
9,480.98	11,994.78	14,573.12	9,691.86	9,009.76	62,654.42	2,169.31	6,540.36
1,493.33	143.02	3,405.87	11,228.83	....	8,430.91	....	376.64
....	....	....	....	....	994.16	....	....
240.00	40.00	604.00	....	30.26	60.00	....	....
11,214.31	12,177.80	18,582.99	20,920.69	9,040.02	72,139.49	2,169.31	6,917.00
14,974.51	12,693.36	9,413.45	2,397.19	17,795.02	128,864.76	3,277.97	2,967.86
11,395.12	3,665.48	5,435.72	1,133.00	8,084.54	79,720.72	1,875.84	1,921.45
....	....	....	....	....	....	....	....
26,369.63	16,358.84	14,849.17	3,530.19	25,879.56	208,585.48	5,153.81	4,889.31
5,019.02	10,505.22	14,426.88	1,308.14	9,940.24	90,145.58	1,380.69	2,959.64
....	2,187.61	....	....	....	....	....	....
26,863.71	25,079.66	15,487.18	....	25,335.26	55,474.89	4,593.28	1,513.00
31,882.73	37,772.49	29,914.06	1,308.14	35,275.50	145,620.47	5,973.97	4,472.64
69,466.67	66,309.13	63,346.22	25,759.02	70,195.08	426,345.44	13,297.09	16,278.95
20.6	19.4	34.5	123.7	17.3	24.3	21.7	52.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—**Continued**

Municipality	Richmond Hill	Ridgetown	Riverside	Rockwood	Rodney
Population	1,197	1,981	5,125	P.V.	690
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	....	79.00	....
Substation equipment	600.00	1,024.24	....	....	....
Distribution system—overhead	10,388.52	21,247.43	90,264.19	7,273.11	11,187.44
Distribution system—underground	....	....	....	....	....
Line transformers	7,092.21	9,852.66	30,431.32	2,481.27	2,971.48
Meters	4,316.07	9,265.01	22,902.89	2,590.44	3,476.27
Street light equipment, regular	1,333.57	3,494.29	....	544.02	639.99
Street light equipment, ornamental	....	1,431.73	17,030.71	....	....
Miscellaneous construction expense	35.23	3,111.77	4,571.45	440.35	792.65
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	5,088.46	....	....	700.00
Total plant	23,765.60	54,515 59	165,200.56	13,408.19	19,767.83
Bank and cash balance	1,023.56	607.67	....	513.39	391.09
Securities and investments	....	13,000.00	....	....	3,000.00
Accounts receivable	1,563.00	779.26	12,556.67	683.08	50.91
Inventories	38.57	865.78	....	122.85	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	5,710.98	18,432.51	31,726.76	5,115.19	5,300.11
Other assets	....	....	270.68	....	....
Total assets	32,101.71	88,200.81	209,754.67	19,842.70	28,509.94
Deficit	....	....	....	....	....
Total	32,101.71	88,200.81	209,754.67	19,842.70	28,509.94
Liabilities					
Debenture balance	5,432.04	7,090.81	61,197.94	2,500.00	5,870.59
Accounts payable	108.96	....	3,455.10	34.71	186.35
Bank overdraft	....	....	....	....	....
Other liabilities	....	1,670.93	17,030.71	21.00	57.50
Total liabilities	5,541.00	8,761.74	81,683.75	2,555.71	6,114.44
Reserves					
For equity in H-E.P.C. systems	5,710.98	18,432.51	31,726.76	5,115.19	5,300.11
For depreciation	686.40	9,637.39	20,088.40	3,902.13	1,000.96
Other reserves	....	....	502.59	....	....
Total reserves	6,397.38	28,069.90	52,317.75	9,017.32	6,301.07
Surplus					
Debentures paid	6,767.96	12,365.18	21,302.06	2,000.00	2,629.41
Local sinking fund	....	....	....	....	....
Operating surplus	13,395.37	39,003.99	54,451.11	6,269.67	13,465.02
Total surplus	20,163.33	51,369.17	75,753.17	8,269.67	16,094.43
Total liabilities, reserves and surplus	32,101.71	88,200.81	209,754.67	19,842.70	28,509.94
Percentage of net debt to total assets	21.0	10.7	40.2	17.4	26.4

"A"—Continued

Hydro Municipalities as at December 31, 1931

St. Catharines 25,347	St. Clair Beach 115	St. George P.V.	St. Jacobs P.V.	St. Marys 4,073	St. Thomas 16,869	Sandwich 11,819	Sarnia 17,003
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
47,378.92	....	....	....	3,000.00	73,053.81	541.70	111,241.65
114,617.11	....	....	....	24,691.28	108,888.01	4,097.56	201,688.59
202,126.33	7,785.49	5,925.49	6,389.42	51,967.99	108,112.44	107,615.45	202,685.30
....	....	....	....	....	34,958.29	....	....
133,812.36	2,492.83	2,799.42	2,539.38	18,936.23	54,199.58	46,852.57	72,620.29
83,705.70	1,469.39	2,757.07	2,442.26	21,297.57	67,102.09	50,269.85	70,805.81
18,352.98	....	230.27	390.26	3,558.47	21,249.43	11,605.41	25,358.08
27,448.87	....	....	....	....	3,693.04	51,239.13	7,482.11
41,980.21	149.27	374.18	460.55	3,902.90	12,355.83	8,989.26	25,161.56
....	....	....	....	....	....	....	....
7,792.05	....	....	....	20,696.85	....	4,148.96	55,495.72
677,214.53	11,896.98	12,086.43	12,221.87	148,051.29	483,612.52	285,359.89	772,539.11
4,095.75	....	180.39	411.39	....	500.00	13,980.60	....
11,969.06	....	2,000.00	3,000.00	....	53,206.81	21,659.37	....
18,726.48	2,153.86	252.03	237.29	6,163.18	21,007.66	8,325.02	45,530.49
653.44	....	25.00	....	3,231.20	374.46	395.22	19,771.20
58,508.02	....	....	....	16,249.09	....	....	....
229,011.38	2,710.18	6,077.42	6,343.61	62,168.88	212,411.29	96,295.06	255,189.01
....	....	....	102.98	....	....	....	....
1,000,178.66	16,761.02	20,621.27	22,317.14	235,863.64	771,112.74	426,015.16	1,093,029.81
....	....	....	....	....	....	....	....
1,000,178.66	16,761.02	20,621.27	22,317.14	235,863.64	771,112.74	426,015.16	1,093,029.81
230,905.68	4,309.36	3,764.81	2,507.80	34,315.05	37,802.70	110,403.21	169,176.85
54,970.22	215.33	429.66	71.00	8,800.00	....	2,582.35	....
....	....	....	....	5,748.64	5,230.82	....	29,918.79
27,448.87	....	57.50	102.98	47.50	11,079.01	62,047.00	12,899.92
313,324.77	4,524.69	4,251.97	2,681.78	48,911.19	54,112.53	175,032.56	211,995.56
229,011.38	2,710.18	6,077.42	6,343.61	62,168.88	212,411.29	96,295.06	255,189.01
117,745.61	1,679.68	1,751.35	2,396.52	42,237.21	74,466.40	29,168.54	97,213.26
13,384.92	....	....	....	209.05	469.95	....	279.39
360,141.91	4,389.86	7,828.77	8,740.13	104,615.14	287,347.64	125,463.60	352,681.66
71,117.23	2,032.09	2,235.19	3,492.20	54,931.97	101,141.37	35,169.82	168,823.15
58,508.02	....	....	....	16,249.09	....	....	....
197,086.73	5,814.38	6,305.34	7,403.03	11,156.25	328,511.20	90,349.18	359,529.44
326,711.98	7,846.47	8,540.53	10,895.23	82,337.31	429,652.57	125,519.00	528,352.59
1,000,178.66	16,761.02	20,621.27	22,317.14	235,863.64	771,112.74	426,015.16	1,093,029.81
33.2	32.2	29.2	16.8	20.7	9.1	44.5	24.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Scarboro' Twp. 18,212	Seaforth 1,689	Simcoe 5,044	Springfield 404	Stamford Twp. 7,128
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	16,585.49	1,251.57	7,978.20	....	7,196.71
Substation equipment	301.95	5,999.16	22,906.67	....	37,384.60
Distribution system—overhead	261,434.07	27,824.80	47,609.49	7,861.45	120,174.87
Distribution system—underground	....	....	....	....	....
Line transformers	56,912.23	9,522.90	22,911.26	2,374.19	42,161.58
Meters	62,297.23	8,397.14	21,565.48	1,930.68	29,410.72
Street light equipment, regular	19,721.73	1,414.55	5,926.89	546.24	8,785.31
Street light equipment, ornamental	....	....	2,527.16	....	....
Miscellaneous construction expense	7,441.82	418.38	6,238.78	691.36	13,038.39
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	927.92	....	13,743.66
Total plant	424,694.52	54,828.50	138,591.85	13,403.92	271,895.84
Bank and cash balance	2,229.71	7.15	2,055.23	372.94	18,612.97
Securities and investments	....	13,100.00	....	5,500.00	....
Accounts receivable	15,004.33	4,680.67	3,496.43	108.00	12,994.15
Inventories	....	2,945.85	254.58	....	6,921.23
Sinking fund on local debentures	....	13,273.49	....	....	....
Equity in H-E.P.C. systems	60,347.94	31,444.96	36,625.50	4,259.90	36,505.83
Other assets	....	....	....	....	383.11
Total assets	502,276.50	120,280.62	181,023.59	23,644.76	347,313.13
Deficit	....	....	....	....	....
Total	502,276.50	120,280.62	181,023.59	23,644.76	347,313.13
LIABILITIES					
Debenture balance	219,448.12	25,000.00	60,688.78	3,939.46	191,598.52
Accounts payable	466.86	....	4,268.05	101.01	226.94
Bank overdraft	2,039.68	842.15	....	....	....
Other liabilities	23,166.35	20.00	3,590.00	92.00	3,619.51
Total liabilities	245,121.01	25,862.15	68,546.83	4,132.47	195,444.97
RESERVES					
For equity in H-E.P.C. systems	60,347.94	31,444.96	36,625.50	4,259.90	36,505.83
For depreciation	48,337.06	16,101.04	14,817.82	1,782.43	18,680.58
Other reserves	....	1,106.96	....	....	734.19
Total reserves	108,685.00	48,652.96	51,443.32	6,042.33	55,920.60
SURPLUS					
Debentures paid	71,120.15	....	14,746.12	5,560.54	48,679.65
Local sinking fund	....	13,273.49	....	....	....
Operating surplus	77,350.34	32,492.02	46,287.32	7,909.42	47,267.91
Total surplus	148,470.49	45,765.51	61,033.44	13,469.96	95,947.56
Total liabilities, reserves and surplus	502,276.50	120,280.62	181,023.59	23,644.76	347,313.13
Percentage of net debt to total assets	55.4	16.7	46.5	21.3	62.9

"A"—Continued

Hydro Municipalities as at December 31, 1931

Stouffville 1,070	Stratford 18,909	Strathroy 2,755	Sutton 831	Tavistock 959	Tecumseh 2,560	Thamesford P.V.	Thamesville 884
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	135,191.94	7,149.98	....	234.02	....	....	627.37
....	136,903.19	21,776.34	....	....	....	....	....
12,255.19	152,568.89	45,771.96	19,109.30	13,273.34	34,318.07	7,544.60	11,689.20
....	....	....	....	....	....	....	....
3,822.57	93,139.60	18,631.17	6,289.03	5,915.06	10,039.18	2,603.58	5,160.49
3,691.95	85,584.26	14,001.93	5,386.34	4,645.66	10,501.57	2,426.06	3,845.51
1,436.43	20,892.28	5,731.38	1,436.80	931.82	....	332.25	1,379.42
....	....	....	....	....	4,760.95	....	....
381.93	17,588.99	1,841.13	1,464.39	567.28	1,262.48	214.02	904.74
....	....	....	....	....	....	....	....
3,866.37	16,150.00	18,609.15	675.00	....	....	....	4,445.68
25,454.44	658,019.15	133,513.04	34,360.86	25,567.18	60,882.25	13,120.51	28,052.41
2,332.90	600.00	4,141.25	1,506.95	1,614.52	....	1,026.61	1,745.36
5,000.00	21,900.00	....	....	4,022.51	....	7,500.00	5,000,00
794.83	59,964.55	5,117.07	751.69	510.74	1,777.55	362.02	935.70
....	10,085.96	2,679.25	....	....	....	....	4.70
....	175,951.66	....	....	....	....	....	....
5,688.12	273,373.55	38,031.17	4,974.32	19,110.50	9,891.42	7,786.57	7,653.35
....	....	....	....	....	70.96	....	....
39,270.29	1,199,894.87	183,481.78	41,593.82	50,825.45	72,622.18	29,795.71	43,391.52
....	....	....	....	....	....	....	....
39,270.29	1,199,894.87	183,481.78	41,593.82	50,825.45	72,622.18	29,795.71	43,391.52
9,575.24	412,000.00	38,551.19	18,914.56	4,051.29	17,343.17	2,064.58	5,264.43
....	219.50	....	2,478.70	....	5,768.37	....	19.45
....	18,221.81	....	....	....	....	....	....
....	1,237.90	358.00	100.00	....	4,760.95	5.00	....
9,575.24	431,679.21	38,909.19	21,493.26	4,051.29	27,872.49	2,069.58	5,283.88
5,688.12	273,373.55	38,031.17	4,974.32	19,110.50	9,891.42	7,786.57	7,653.35
1,239.98	172,843.06	21,447.87	3,308.52	6,157.71	8,240.12	4,011.11	4,806.75
....	1,088.56	425.00	....	....	208.09	....	....
6,928.10	447,305.17	59,904.04	8,282.84	25,268.21	18,339.63	11,797.68	12,460.10
8,965.03	43,800.00	27,680.81	7,085.44	1,948.71	8,656.83	3,293.45	5,923.37
....	175,951.66	....	....	....	....	....	....
13,801.92	101,158.83	56,987.74	4,732.28	19,557.24	17,753.23	12,635.00	19,724.17
22,766.95	320,910.49	84,668.55	11,817.72	21,505.95	26,410.06	15,928.45	25,647.54
39,270.29	1,199,894.87	183,481.78	41,593.82	50,825.45	72,622.18	29,795.71	43,391.52
28.5	34.1	26.8	58.7	12.8	39.9	9.4	14.8

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Thedford	Thorndale	Thorold	Tilbury	Tillsonburg
Population	539	P.V.	5,000	1,905	3,189
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			9,892.59	969.46	6,918.30
Substation equipment					13,937.52
Distribution system—overhead	8,860.82	3,203.12	30,054.31	13,618.72	39,372.46
Distribution system—underground					
Line transformers	2,686.63	1,559.98	13,702.42	11,983.29	14,586.24
Meters	2,132.18	1,714.84	19,614.31	7,325.14	15,283.47
Street light equipment, regular	885.46	181.19	2,762.69	1,001.16	3,854.60
Street light equipment, ornamental					
Miscellaneous construction expense	1,646.81	310.45	5,619.75	1,522.82	3,068.59
Steam or hydraulic plant			13,175.95		
Old plant	433.78			3,049.47	
Total plant	16,645.68	6,969.58	94,822.02	39,470.06	97,021.18
Bank and cash balance	238.32	1,433.96	7,105.38	1,541.20	2,230.07
Securities and investments	2,000.00			10,000.00	18,000.00
Accounts receivable	25.91	112.20	1,645.52	1,186.21	3,057.61
Inventories			106.26		2,071.77
Sinking fund on local debentures					
Equity in H-E.P.C. systems	3,699.82	4,294.94	32,733.02	19,803.88	38,814.94
Other assets					
Total assets	22,609.73	12,810.68	136,412.20	72,001.35	161,195.57
Deficit					
Total	22,609.73	12,810.68	136,412.20	72,001.35	161,195.57
LIABILITIES					
Debenture balance	10,587.81	1,603.11	640.88	7,900.42	12,159.39
Accounts payable	237.16	254.54	901.66		
Bank overdraft					2,485.25
Other liabilities			1,451.50		1,910.00
Total liabilities	10,824.97	1,857.65	2,994.04	7,900.42	16,554.64
RESERVES					
For equity in H-E.P.C. systems	3,699.82	4,294.94	32,733.02	19,803.88	38,814.94
For depreciation	1,483.53	2,186.99	21,388.62	8,871.81	26,554.55
Other reserves					536.57
Total reserves	5,183.35	6,481.93	54,121.64	28,675.69	65,906.06
SURPLUS					
Debentures paid	5,912.19	1,483.37	4,359.12	6,099.58	23,840.61
Local sinking fund					
Operating surplus	689.22	2,987.73	74,937.40	29,325.66	54,894.26
Total surplus	6,601.41	4,470.10	79,296.52	35,425.24	78,734.87
Total liabilities, reserves and surplus	22,609.73	12,810.68	136,412.20	72,001.35	161,195.57
Percentage of net debt to total assets	57.2	21.8	2.9	15.1	13.5

"A"—Continued

Hydro Municipalities as at December 31, 1931

Toronto 606,370	Toronto Twp. 8,100	Trafalgar Twp. Zone No. 1 3,694	Trafalgar Twp. Zone No. 2	Walkerville 11,219	Wallaceburg 4,268	Wardsville 209	Waterdown 917
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,113,550.23	6,366.13			147,335.98	37,746.29		200.00
14,637,010.01				154,921.02	9,467.85		
5,849,216.85	166,852.10	19,740.19	8,569.08	151,142.78	55,330.09	4,960.22	15,478.38
3,823,436.65							
3,305,281.26	42,288.90	9,189.54	1,824.92	90,321.36	34,819.62	1,695.49	4,831.50
2,864,576.17	28,656.68	4,714.92	1,163.24	69,168.93	19,407.13	1,253.12	5,447.07
471,221.53	3,717.44				10,738.99	519.36	583.81
				187,172.22			
2,372,988.05	3,088.13	1,728.84	323.16	40,715.70	4,736.09	488.73	528.79
3,601,994.48	619.65			18,335.05	20,941.07	193.94	
41,039,275.23	251,589.03	35,373.49	11,880.40	859,113.04	193,187.13	9,110.86	27,069.55
1,054,175.64	11,820.53	2,357.75	1,535.87	39,452.18	10,076.08		565.30
	10,000.00					1,000.00	
1,544,280.03	6,414.54	108.77	162.71	123,255.10	3,965.17	466.40	2,407.04
635,539.26				33,181.44	3,534.78	13.30	
5,452,409.67							
8,036,704.72	35,561.66			284,578.64	83,020.16	1,402.10	10,962.64
75,583.18	1,680.16			1,173.04			
57,837,967.73	317,065.92	37,840.01	13,578.98	1,340,753.44	293,783.32	11,992.66	41,004.53
57,837,967.73	317,065.92	37,840.01	13,578.98	1,340,753.44	293,783.32	11,992.66	41,004.53
26,931,783.36	70,901.11	14,423.80	9,461.15	167,511.34	49,891.53	4,695.71	494.23
1,438,619.62	4,363.20	1.48	193.75	85,049.11	5,033.07	415 05	971.96
						239.57	
	1,680.16			204,749.72	1,358.39		40.00
28,370,402.98	76,944.47	14,425.28	9,654.90	457,310.17	56,282.99	5,350.33	1,506.19
8,036,704.72	35,561.66			284,578.64	83,020.16	1,402.10	10,962.64
6,435,240.76	71,936.44	9,860.67	641.00	101,002.52	32,724.09	1,450.84	5,749.85
1,000,247.17				3,004.11	211.14		
15,472,192.65	107,498.10	9,860.67	641.00	388,585.27	115,955.39	2,852.94	16,712.49
5,758,216.64	33,098.89	5,002.61		131,747.66	21,645.05	2,866.69	7,505.77
5,452,409.67							
2,784,745.79	99,524.46	8,551.45	3,283.08	363,110.34	99,899.89	922.70	15,280.08
13,995,372.10	132,623.35	13,554.06	3,283.08	494,858.00	121,544.94	3,789.39	22,785.85
57,837,967.73	317,065.92	37,840.01	13,578.98	1,340,753.44	293,783.32	11,992.66	41,004.53
51.7	27.3	38.1	71.1	31.1	26.7	50.5	5.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM

Municipality	Waterford	Waterloo	Watford	Welland	Wellesley
Population	1,091	8,389	977	10,141	P.V.
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	14,454.37	....	73,059.45	....
Substation equipment	....	63,511.42	....	56,576.25	....
Distribution system—overhead	15,271.42	85,237.69	15,573.77	129,368.88	5,553.38
Distribution system—underground	....	....	....	7,353.89	....
Line transformers	6,521.87	39,603.01	5,286.79	56,799.16	2,153.50
Meters	5,859.59	34,307.58	5,156.27	54,424.68	2,321.20
Street light equipment, regular	3,163.06	17,155.34	807.31	4,236.59	545.11
Street light equipment, ornamental	....	....	....	27,252.86	....
Miscellaneous construction expense	442.53	7,797.80	2,174.41	11,670.86	102.05
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	24,160.67	657.44	51,256.28	....
Total plant	31,258.47	286,227.88	29,655.99	471,998.90	10,675.24
Bank and cash balance	614.04	....	1,401.69	2,640.94	2,756.27
Securities and investments	8,000.00	....	4,000.00	4,487.73	....
Accounts receivable	815.75	15,008.25	1,276.59	13,847.62	228.19
Inventories	4.75	1,234.22	26.93	17,259.96	....
Sinking fund on local debentures	....	6,336.00	....	90,925.27	....
Equity in H-E.P.C. systems	13,745.91	115,048.97	9,067.10	126,873.82	8,224.74
Other assets	....	....	....	3,736.32	....
Total assets	54,438.92	423,855.32	45,428.30	731,770.56	21,884.44
Deficit	....	....	....	....	....
Total	54,438.92	423,855.32	45,428.30	731,770.56	21,884.44
Liabilities					
Debenture balance	....	61,444.81	2,933.08	244,677.35	2,754.40
Accounts payable	950.66	6,434.28	....	30,190.43	1,085.36
Bank overdraft	....	9,949.14	....	....	....
Other liabilities	....	....	....	33,612.86	....
Total liabilities	950.66	77,828.23	2,933.08	308,480.64	3,839.76
Reserves					
For equity in H-E.P.C. systems	13,745.91	115,048.97	9,067.10	126,873.82	8,224.74
For depreciation	8,198.46	80,454.73	4,325.24	97,855.41	1,923.80
Other reserves	....	3,106.80	....	950.00	....
Total reserves	21,944.37	198,610.50	13,392.34	225,679.23	10,148.54
Surplus					
Debentures paid	7,745.53	44,555.19	6,780.13	30,322.65	4,745.60
Local sinking fund	....	6,336.00	....	90,925.27	....
Operating surplus	23,798.36	96,525.40	22,322.75	76,362.77	3,150.54
Total surplus	31,543.89	147,416.59	29,102.88	197,610.69	7,896.14
Total liabilities, reserves and surplus	54,438.92	423,855.32	45,428.30	731,770.56	21,884.44
Percentage of net debt to total assets	2.3	23.6	8.1	39.1	28.1

"A"—Continued

Hydro Municipalities as at December 31, 1931

West Lorne 741	Weston 4,606	Wheatley 748	Windsor 70,031	Woodbridge 737	Woodstock 10,898	Wyoming 473	York Twp. 60,207
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	11,770.81	....	312,081.63	....	35,489.71	....	....
....	32,737.85	....	677,140.19	....	89,309.81	....	....
11,386.93	59,000.12	14,271.69	749,058.97	16,104.19	98,833.11	7,089.33	745,547.27
....	....	....	136,703.62	....	....	....	....
4,138.99	35,332.30	4,275.64	351,680.68	5,754.28	53,830.36	1,257.61	....
3,120.98	21,414.10	3,735.83	332,916.82	4,273.32	52,273.54	2,190.16	....
615.97	30,057.76	1,519.76	37,202.00	423.26	15,068.12	283.92	48,894.34
....	....	....	693,788.56	....	....	....	....
347.14	6,008.95	933.67	135,908.28	838.20	2,770.47	805.20	19,070.96
....	....	....	....	....	....	....	....
1,250.00	1,912.03	2,569.50	141,990.11	....	....	....	....
20,860.01	198,233.92	27,306.09	3,568,470.86	27,393.25	347,575.12	11,626.22	813,512.57
1,578.87	....	3,012.97	25,275.00	150.14	46,918.62	....	133,871.85
....	....	....	38,835.98	....	61,000.00	....	....
747.37	11,820.43	....	161,347.37	526.90	9,922.45	117.24	207.88
....	288.20	....	82,478.93	....	714.38	....	....
....	....	....	167,644.47	....	44,990.44	....	....
14,672.33	102,006.43	4,560.55	843,083.61	12,839.64	166,524.54	3,538.44	....
....	1,679.44	....	6,618.54	....	....	....	27,334.49
37,858.58	314,028.42	34,879.61	4,893,754.76	40,909.93	677,645.55	15,281.90	974,926.79
....	....	....	....	....	....	1,915.78	....
37,858.58	314,028.42	34,879.61	4,893,754.76	40,909.93	677,645.55	17,197.68	974,926.79
5,644.86	44,290.34	9,375.49	1,491,482.07	5,608.40	78,708.99	3,096.66	454,202.77
964.98	75.00	232.53	64,083.33	3,660.87	....	....	....
....	868.72	....	48,538.78	....	....	233.10	....
....	1,679.44	....	744,443.99	164.43	5,004.20	....	....
6,609.84	46,913.50	9,608.02	2,348,548.17	9,433.70	83,713.19	3,329.76	454,202.77
14,672.33	102,006.43	4,560.55	843,083.61	12,839.64	166,524.54	3,538.44	....
4,618.14	22,987.16	1,873.27	307,084.79	5,935.60	109,240.39	3,726.14	108,474.03
....	....	....	45,492.03	....	13,509.88	....	....
19,290.47	124,993.59	6,433.82	1,195,660.43	18,775.24	289,274.81	7,264.58	108,474.03
2,355.14	25,742.10	3,624.51	498,517.96	2,891.57	48,676.64	6,603.34	145,797.23
....	....	....	167,644.47	....	44,990.44	....	....
9,603.13	116,379.23	15,213.26	683,383.73	9,809.42	210,990.47	....	266,452.76
11,958.27	142,121.33	18,837.77	1,349,546.16	12,700.99	304,657.55	6,603.34	412,249.99
37,858.58	314,028.42	34,879.61	4,893,754.76	40,909.93	677,645.55	17,197.68	974,926.79
28.5	22.1	31.7	46.6	33.6	8.3	28.4	46.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality	Zurich	SUMMARY NIAGARA SYSTEM	Alliston	Arthur	Barrie
Population	P.V.		1,364	954	7,166
	$ c.	$ c.	$ c.	$ c.	$ c.
ASSETS					
Lands and buildings		7,200,399.54			14,236.91
Substation equipment		19,710,862.92	675.73		15,152.50
Distribution system, overhead	6,912.47	16,090,737.16	23,512.13	16,890.46	55,296.82
Distribution system, underground		4,968,417.13			66,437.67
Line transformers	1,643.52	7,439,795.70	5,967.52	4,161.78	41,322.61
Meters	2,223.26	6,656,770.88	6,901.93	3,297.97	38,016.31
Street light equipment, regular	471.82	1,641,683.24	1,453.49	767.21	12,054.19
Street light equipment, ornamental		1,425,750.51			
Miscellaneous construction expense	240.77	3,457,956.31	2,675.19	326.99	6,822.64
Steam or hydraulic plant		13,175.95			
Old plant	150.00	6,478,817.98	7,846.49	1,086.62	42,634.32
Total plant	11,641.84	75,084,367.32	49,032.48	26,531.03	291,973.97
Bank and cash balance	324.47	2,275,060.87	9,780.77		50.00
Securities and investments	2,000.00	570,347.86			
Accounts receivable	363.32	3,343,871.89	792.55	48.35	14,158.93
Inventories		1,139,120.58			525.87
Sinking fund on local debentures		7,382,481.41			
Equity in H-E.P.C. systems	6,127.15	18,128,680.11	8,470.85	8,504.07	54,684.26
Other assets		163,738.73			
Total assets	20,456.78	108,087,668.77	68,076.65	35,083.45	361,393.03
Deficit		12,353.08		8,085.94	
Total	20,456.78	108,100,021.85	68,076.65	43,169.39	361,393.03
LIABILITIES					
Debenture balance	4,083.03	40,152,865.85	28,679.65	19,043.99	11,059.09
Accounts payable		4,670,391.15	2,451.78	2.30	41,991.02
Bank overdraft		213,942.54		161.27	17,892.84
Other liabilities		1,862,177.20			
Total liabilities	4,083.03	46,899,376.74	31,131.43	19,207.56	70,942.95
RESERVES					
For equity in H-E.P.C. systems	6,127.15	18,128,680.11	8,470.85	8,504.07	54,684.26
For depreciation	3,341.04	11,504,265.00	12,639.68	9,501.75	47,725.03
Other reserves		1,404,125.04			689.86
Total reserves	9,468.19	31,037,070.15	21,110.53	18,005.82	103,099.15
SURPLUS					
Debentures paid	1,508.58	10,992,385.64	11,320.35	5,956.01	75,940.91
Local sinking fund		7,382,481.41			
Operating surplus	5,396.98	11,788,707.91	4,514.34		111,410.02
Total surplus	6,905.56	30,163,574.96	15,834.69	5,956.01	187,350.93
Total liabilities, reserves and surplus	20,456.78	108,100,021.85	68,076.65	43,169.39	361,393.03
Percentage of net debt to total assets	28.5	46.9	52.2	72.3	23.1

"A"—Continued

Hydro Municipalities as at December 31, 1931

Beaverton 988	Beeton 561	Bradford 933	Brechin P.V.	Cannington 849	Chatsworth 251	Chesley 1,702	Coldwater 563
$ c.	$ c.	$ c.	$ c.	$ c	$ c.	$ c.	$ c.
299.50	....	....	....	....	221.00	....	275.00
....	428.50	388.50	....	....	....	595.98	....
22,814.99	11,616.83	18,807.42	1,789.59	9,412.57	4,448.76	19,777.30	7,478.22
....	....	....	....	....	....	....	....
8,597.24	2,188.63	4,034.14	1,126.71	4,085.13	1,014.91	6,361.58	2,779.67
6,420.04	1,767.20	3,601.85	622.33	4,114.34	1,221.13	6,580.53	2,825.62
1,348.23	1,169.54	544.95	212.44	751.25	529.17	1,173.68	399.16
....	....	....	....	....	....	....	....
2,445.56	1,418.44	1,828.94	546.92	587.33	385.90	3,352.82	145.03
....	....	....	....	....	....	....	....
3,772.42	....	....	....	3,609.37	....	5,503.60	....
45,697.98	18,589.14	29,205.80	4,297.99	22,559.99	7,820.87	43,345.49	13,902.70
2,656.88	1,026.27	2,405.56	1,491.25	2,327.66	2,879.22	15.00	1,186.40
4,000.00	....	2,000.00	....	2,326.62	....	10,000.00	6,000.00
566.23	292.50	....	243.10	92.22	225.97	2,944.31	685.31
....	6.91	860.15	....	179.67	7.48	183.47	....
....	....	....	....	....	2,753.95	....	....
10,046.41	6,788.11	7,573.67	3,991.90	7,411.17	1,766.28	14,455.87	5,434.63
....	....	....	....	....	....	....	....
62,967.50	26,702.93	42,045.18	10,024.24	34,897.33	15,453.77	70,944.14	27,209.04
....	453.89	....	....	....	....	....	....
62,967.50	27,156.82	42,045.18	10,024.24	34,897.33	15,453.77	70,944.14	27,209.04
7,765.69	11,000.91	19,806.42	2,344.86	9,151.76	4,757.87	8,795.96	4,150.90
1,990.63	3.00	999.69	723.43	705.03	....	3,116.06	1,404.05
....	....	....	....	....	....	22.25	....
386.50	....	....	....	....	....	....	36.00
10,142.82	11,003.91	20,806.11	3,068.29	9,856.79	4,757.87	11,934.27	5,590.95
10,046.41	6,788.11	7,573.67	3,991.90	7,411.17	1,766.28	14,455.87	5,434.63
9,873.78	5,365.71	7,006.01	1,394.18	6,328.77	2,413.91	11,470.33	5,930.51
....	....	....	....	....	....	....	....
19,920.19	12,153.82	14,579.68	5,386.08	13,739.94	4,180.19	25,926.20	11,365.14
7,234.31	3,999.09	5,393.58	866.06	5,848.24	642.13	18,704.04	2,849.10
....	....	....	....	....	2,753.95	....	....
25,670.18	....	1,265.81	703.81	5,452.36	3,119.63	14,379.63	7,403.85
32,904.49	3,999.09	6,659.39	1,569.87	11,300.60	6,515.71	33,083.67	10,252.95
62,967.50	27,156.82	42,045.18	10,024.24	34,897.33	15,453.77	70,944.14	27,209.04
19.2	55.3	60.4	50.9	35.9	18.3	21.1	25.7

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Collingwood	Cookstown	Creemore	Dundalk	Durham
Population	6,027	P.V.	598	659	1,744
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	15,950.08	60.00			56.59
Substation equipment	11,203.24	392.95			546.02
Distribution system—overhead	47,331.05	9,065.60	7,286.01	7,457.14	19,323.45
Distribution system—underground					
Line transformers	16,184.08	2,010.72	3,171.36	3,204.77	6,846.31
Meters	21,950.71	1,686.25	2,808.56	2,336.79	6,351.64
Street light equipment, regular	2,876.90	514.21	295.27	1,078.87	1,381.46
Street light equipment, ornamental					
Miscellaneous construction expense	6,779.98	1,520.03	279.27	462.38	1,513.57
Steam or hydraulic plant					
Old plant	473.20		3,585.24	380.94	2,091.39
Total plant	122,749.24	15,249.76	17,425.71	14,920.89	38,110.43
Bank and cash balance		1,687.52	559.97	754.61	919.88
Securities and investments	27,000.00		4,000.00	4,000.00	18,000.00
Accounts receivable	7,136.84	548.34	389.32	28.22	833.34
Inventories	599.57		17.62	23.70	29.65
Sinking fund on local debentures					
Equity in H-E.P.C. systems	66,381.32	2,042.48	5,263.04	4,939.81	14,351.11
Other assets					
Total assets	223,866.97	19,528.10	27,655.66	24,667.23	72,244.41
Deficit		949.07			
Total	223,866.97	20,477.17	27,655.66	24,667.23	72,244.41
Liabilities					
Debenture balance	1,916.24	7,617.54	1,514.96	1,468.11	5,763.61
Accounts payable	6,016.00	24.51	5,167.42	633.22	4,438.10
Bank overdraft	3,070.92				
Other liabilities	1,756.59				
Total liabilities	12,759.75	7,642.05	6,682.38	2,101.33	10,201.71
Reserves					
For equity in H-E.P.C. systems	66,381.32	2,042.48	5,263.04	4,939.81	14,351.11
For depreciation	34,275.68	4,910.18	2,625.06	3,361.69	9,743.47
Other reserves					
Total reserves	100,657.00	6,952.66	7,888.10	8,301.50	24,094.58
Surplus					
Debentures paid	40,688.35	5,882.46	4,985.04	4,868.79	20,036.39
Local sinking fund					
Operating surplus	69,761.87		8,100.14	9,395.61	17,911.73
Total surplus	110,450.22	5,882.46	13,085.18	14,264.40	37,948.12
Total liabilities, reserves and surplus	223,866.97	20,477.17	27,655.66	24,667.23	72,244.41
Percentage of net debt to total assets	8.1	43.7	29.8	9.3	17.6

"A"—Continued

Hydro Municipalities as at December 31, 1931

Elmvale P.V.	Elmwood P.V.	Flesherton 448	Grand Valley 590	Gravenhurst 1,822	Hanover 2,920	Holstein P.V.	Huntsville 2,903
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
106.25	....	....	36.50	2,747.29	3,001.32	....	353.52
....	....	....	....	6,372.35	9,271.19	....	647.30
10,180.57	4,803.32	5,389.47	10,351.24	21,600.93	48,493.19	2,102.68	13,574.18
....	....	....	....	....	....	....	....
3,638.32	803.88	1,802.52	2,106.13	6,871.77	16,563.09	555.22	5,810.07
3,133.22	930.06	1,940.13	2,503.90	8,343.84	15,626.52	514.82	8,532.11
447.17	302.28	579.10	503.83	3,904.71	2,326.30	168.69	2,262.52
....	....	....	....	....	....	....	....
510.13	1,093.62	914.48	205.70	2,008.93	6,575.52	205.93	702.20
....	....	....	....	....	....	....	....
....	....	....	919.85	26,976.29	2,370.91	....	5,436.20
18,015.66	7,933.16	10,625.70	16,627.15	78,826.11	104,228.04	3,547.34	37,318.10
1,931.27	2,079.33	3,636.33	2,922.37	2,849.05	2,193.90	57.30	5,869.23
2,000.00	....	....	3,230.86	1,800.00	27,244.54	....	8,000.00
29.88	47.42	334.80	42.44	5,076.67	1,833.80	372.33	1,804.88
....	....	31.71	36.92	666.56	....	54.81	1,445.26
....	339.36	....	....	6,810.49	....	....	....
7,351.15	1,499.85	2,809.55	5,128.94	8,321.62	36,844.73	1,634.80	23,842.16
....	....	....	....	....	....	....	....
29,327.96	11,899.12	17,438.09	27,988.68	104,350.50	172,345.01	5,666.58	78,279.63
....	....	....	....	....	....	4,176.05	....
29,327.96	11,899.12	17,438.09	27,988.68	104,350.50	172,345.01	9,842.63	78,279.63
3,782.39	3,445.50	4,233.02	4,039.77	15,180.57	44,254.02	641.97	3,727.58
785.50	239.49	770.01	1,289.25	211.32	....	4,480.78	2,957.32
....	....	....	....	12.41	....	....	....
....	....	....	....	....	....	10.00	285.00
4,567.89	3,684.99	5,003.03	5,329.02	15,404.30	44,254.02	5,132.75	6,969.90
7,351.15	1,499.85	2,809.55	5,128.94	8,321.62	36,844.73	1,634.80	23,842.16
5,627.79	2,278.98	3,121.77	4,277.10	14,986.32	31,529.07	955.00	10,474.46
....	....	....	....	....	....	....	....
12,978.94	3,778.83	5,931.32	9,406.04	23,307.94	68,373.80	2,589.80	34,316.62
3,217.61	3,754.50	2,466.98	6,960.23	48,787.87	43,245.98	2,120.08	17,405.96
....	339.36	....	....	6,810.49	....	....	....
8,563.52	341.44	4,036.76	6,293.39	10,039.90	16,471.21	....	19,587.15
11,781.13	4,435.30	6,503.74	13,253.62	65,638.26	59,717.19	2,120.08	36,993.11
29,327.96	11,899.12	17,438.09	27,988.68	104,350.50	172,345.01	9,842.63	78,279.63
20.8	33.3	34.2	23.3	9.6	32.7	127.3	12.8

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population	2,218	P.V.	1,115	812	2,708
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	6,389.46				1,104.93
Substation equipment	2,794.20			780.80	2,398.85
Distribution system—overhead	40,452.33	5,113.67	16,839.18	9,359.70	29,627.82
Distribution system—underground					
Line transformers	9,369.42	557.90	3,962.16	3,153.41	7,132.98
Meters	9,561.08	600.28	4,483.93	3,230.79	6,701.41
Street light equipment, regular	5,067.87	379.00	1,310.17	1,120.86	3,217.61
Street light equipment, ornamental					
Miscellaneous construction expense	5,651.33	301.53	2,307.02	679.49	2,141.28
Steam or hydraulic plant					
Old plant				2,080.65	3,496.43
Total plant	79,285.69	6,952.38	28,902.46	20,405.70	55,821.31
Bank and cash balance	727.55	869.25	2,139.45	1,125.33	2,648.66
Securities and investments			2,000.00	4,500.00	16,506.69
Accounts receivable	2,755.00	125.64	1,438.61	447.68	777.68
Inventories	1,817.02			75.39	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	13,214.57	1,349.31	6,676.63	3,751.29	8,843.78
Other assets	267.73				722.59
Total assets	98,067.56	9,296.58	41,157.15	30,305.39	85,320.71
Deficit		721.59			
Total	98,067.56	10,018.17	41,157.15	30,305.39	85,320.71
Liabilities					
Debenture balance	37,263.70	3,558.14	12,675.23	6,078.06	35,832.33
Accounts payable	2,078.00	1,067.79	116.54	543.67	2,335.97
Bank overdraft					
Other liabilities				20.00	654.82
Total liabilities	39,341.70	4,625.93	12,791.77	6,641.73	38,823.12
Reserves					
For equity in H-E.P.C. systems	13,214.57	1,349.31	6,676.63	3,751.29	8,843.78
For depreciation	12,219.69	1,601.07	4,045.95	6,198.54	6,828.29
Other reserves					
Total reserves	25,434.26	2,950.38	10,722.58	9,949.83	15,672.07
Surplus					
Debentures paid	26,936.30	2,441.86	7,048.13	2,921.94	13,527.87
Local sinking fund					
Operating surplus	6,355.30		10,594.67	10,791.89	17,297.65
Total surplus	33,291.60	2,441.86	17,642.80	13,713.83	30,825.52
Total liabilities, reserves and surplus	98,067.56	10,018.17	41,157.15	30,305.39	85,320.71
Percentage of net debt to total assets	46.4	58.2	37.1	25.0	50.8

"A"—Continued

Hydro Municipalities as at December 31, 1931

Midland 7,116	Mount Forest 1,888	Neustadt 460	Orangeville 2,772	Owen Sound 12,778	Paisley 716	Penetanguishene 3,767	Port Elgin 1,203
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,036.05	3,725.00	....	2,585.07	25,978.31	....	2,151.00	....
85,096.20	686.75	....	1,169.00	12,919.97	1,933.26	7,076.39	....
92,442.10	22,353.08	9,965.81	31,117.60	103,056.15	11,445.12	41,101.11	25,054.17
....	....	....	....	....	....	....	....
21,714.69	6,511.99	3,864.69	6,036.58	46,363.02	1,602.53	15,059.02	4,759.88
35,522.17	7,023.81	2,017.85	10,597.37	54,467.64	2,867.77	13,226.02	5,349.71
18,514.34	2,302.55	496.41	7,351.14	27,506.49	1,045.51	3,484.13	1,982.84
....	....	....	....	....	....	....	....
6,716.32	2,171.40	1,521.48	6,051.09	4,799.89	742.60	1,852.60	258.47
....	....	....	....	33,282.00	....	....	....
14,315.62	3,810.95	1,097.60	3,204.99	....	1,745.00	4,017.05	4,352.00
293,357.49	48,585.53	18,963.84	68,112.84	308,373.47	21,381.79	87,967.32	41,757.07
2,145.08	2,603.15	17.40	4,733.98	22,523.13	339.00	2,670.23	5,974.13
29,000.00	8,000.00	....	....	9,893.33	2,500.00	1,402.94	....
18,034.89	116.35	35.47	1,195.27	5,233.39	1,070.97	1,378.65	259.27
4,350.61	65.80	....	165.85	2,778.08	....	646.66	54.07
....	....	....	....	18,318.97	....	....	....
100,398.65	12,725.37	4,457.46	15,643.23	75,492.46	3,771.93	29,708.19	420.11
....	....	....	762.43	6,447.24	....	....	....
447,286.72	72,096.20	23,474.17	90,613.60	449,060.07	29,063.69	123,773.99	48,464.65
....	....	12,874.37	....	....	....	....	....
447,286.72	72,096.20	36,348.54	90,613.60	449,060.07	29,063.69	123,773.99	48,464.65
40,089.16	12,960.21	8,665.60	12,511.08	20,000.00	11,539.09	19,130.68	42,000.00
22,473.57	2,107.43	9,427.73	24.76	25,569.94	625.52	4,480.04	3,210.94
....	....	....	....	....	....	....	....
600.67	....	....	500.00	2,233.26	....	....	....
63,163.40	15,067.64	18,093.33	13,035.84	47,803.20	12,164.61	23,610.72	45,210.94
100,398.65	12,725.37	4,457.46	15,643.23	75,492.46	3,771.93	29,708.19	420.11
93,441.15	11,972.34	5,463.35	16,367.18	45,862.13	2,714.85	26,498.90	619.00
....	....	....	762.43	....	....	....	....
193,839.80	24,697.71	9,920.81	32,772.84	121,354.59	6,486.78	56,207.09	1,039.11
71,980.83	17,998.39	8,334.40	23,388.92	121,000.00	4,460.91	21,869.32	....
....	....	....	....	18,318.97	....	....	....
118,302.69	14,332.46	....	21,416.00	140,583.31	5,951.39	22,086.86	2,214.60
190,283.52	32,330.85	8,334.40	44,804.92	279,902.28	10,412.30	43,956.18	2,214.60
447,286.72	72,096.20	36,348.54	90,613.60	449,060.07	29,063.69	123,773.99	48,464.65
18.2	25.4	95.1	17.4	8.3	48.1	25.1	94.1

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Port McNicoll	Port Perry	Priceville	Ripley	Rosseau
Population	825	1,288	P.V.	410	230
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	202.60		68.00		
Substation equipment		2,564.65			
Distribution system—overhead	7,269.85	18,751.48	4,641.50	9,292.68	6,965.75
Distribution system—underground					
Line transformers	1,248.32	4,471.61	549.70	2,885.36	2,026.21
Meters	2,245.28	3,984.01	362.85	1,291.88	871.71
Street light equipment, regular	225.81	1,037.90	139.88	844.33	390.03
Street light equipment, ornamental					
Miscellaneous construction expense	634.10	397.67	833.90	1,164.99	502.13
Steam or hydraulic plant					
Old plant					
Total plant	11,825.96	31,207.32	6,595.83	15,479.24	10,755.83
Bank and cash balance	651.12		155.44	1,826.93	27.14
Securities and investments		11,946.66		1,500.00	
Accounts receivable	771.43	359.61	179.04	258.29	16.89
Inventories	35.92			60.60	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,526.85	5,610.51	602.49	2,905.55	132.39
Other assets					
Total assets	15,811.28	49,124.10	7,532.80	22,030.61	10,932.25
Deficit			5,551.43		96.49
Total	15,811.28	49,124.10	13,084.23	22,030.61	11,028.74
LIABILITIES					
Debenture balance	3,011.20	16,413.99	3,558.15	11,131.32	
Accounts payable	866.44	19.68	4,166.84	996.09	10,832.16
Bank overdraft		1,379.79			
Other liabilities		96.00		10.00	64.19
Total liabilities	3,877.64	17,909.46	7,724.99	12,137.41	10,896.35
RESERVES					
For equity in H-E.P.C. systems	2,526.85	5,610.51	602.49	2,905.55	132.39
For depreciation	3,605.34	4,521.06	1,314.90	2,810.18	
Other reserves					
Total reserves	6,132.19	10,131.57	1,917.39	5,715.73	132.39
SURPLUS					
Debentures paid	4,288.80	3,467.67	3,441.85	2,840.62	
Local sinking fund					
Operating surplus	1,512.65	17,615.40		1,336.85	
Total surplus	5,801.45	21,083.07	3,441.85	4,177.47	
Total liabilities, reserves and surplus	15,811.28	49,124.10	13,084.23	22,030.61	11,028.74
Percentage of net debt to total assets	29.2	41.2	111.5	63.5	100.9

"A"—Continued

Hydro Municipalities as at December 31, 1931

Shelburne 1,138	Southampton 1,700	Stayner 949	Sunderland P.V.	Tara 455	Teeswater 835	Thornton P.V.	Tottenham 538
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
800.00	....	....	....	....	....	....	....
566.60	....	200.00	....	....	330.31	....	358.50
14,670.22	15,060.76	11,515.62	4,158.87	10,888.21	16,097.70	6,403.82	8,002.00
....	....	....	....	....	....	....	....
5,495.20	5,181.00	5,036.75	1,365.63	1,882.89	4,495.18	860.41	1,117.48
6,242.60	6,780.80	4,864.31	1,918.77	1,680.61	3,166.18	783.86	1,880.62
1,059.60	1,517.46	884.35	398.57	430.59	1,395.76	381.95	460.17
....	....	....	....	....	....	....	....
2,293.26	869.04	321.33	154.72	1,243.96	1,886.29	300.35	1,265.68
....	....	....	....	....	....	....	....
739.50	2,604.00	4,132.41	2,030.00	....	4,976.86	....	286.45
31,866.98	32,013.06	26,954.77	10,026.56	16,126.26	32,348.28	8,730.39	13,370.90
1,786.24	4,954.54	89.83	645.27	922.09	125.05	42.18	930.40
5,000.00	....	7,000.00	1,000.00	....	4,000.00	....	....
115.02	669.92	727.17	112.60	837.19	260.32	215.00	377.40
....	....	....	....	37.20	....	....	....
....	....	....	....	....	....	....	....
7,899.82	549.50	6,733.95	5,175.44	3,742.57	4,979.46	1,420.55	4,296.54
....	....	....	....	....	....	....	....
46,668.06	38,187.02	41,505.72	16,959.87	21,665.31	41,713.11	10,408.12	18,975.24
....	....	....	....	2,897.73	....	5,048.96	2,237.37
46,668.06	38,187.02	41,505.72	16,959.87	24,563.04	41,713.11	15,457.08	21,212.61
6,886.19	32,002.00	3,275.25	3,626.90	7,334.09	14,353.51	4,215.30	8,378.02
1,102.65	....	98.77	316.12	353.83	2,276.57	3,366.68	2.50
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	76.00
7,988.84	32,002.00	3,374.02	3,943.02	7,687.92	16,630.08	7,581.98	8,456.52
7,899.82	549.50	6,733.95	5,175.44	3,742.57	4,979.46	1,420.55	4,296.54
8,473.43	523.00	7,589.42	2,647.45	4,966.64	3,684.10	3,169.85	3,870.47
....	....	....	....	....	....	....	....
16,373.25	1,072.50	14,323.37	7,822.89	8,709.21	8,663.56	4,590.40	8,167.01
13,033.81	998.00	10,724.75	3,173.10	8,165.91	13,646.49	3,284.70	4,589.08
....	....	....	....	....	....	....	....
9,272.16	4,114.52	13,083.58	2,020.86	....	2,772.98	....	....
22,305.97	5,112.52	23,808.33	5,193.96	8,165.91	16,419.47	3,284.70	4,589.08
46,668.06	38,187.02	41,505.72	16,959.87	24,563.04	41,713.11	15,457.08	21,212.61
20.6	85.0	9.7	33.5	42.9	45.3	84.4	57.6

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Uxbridge	Victoria Harbor	Walkerton	Waubaushene P.V.	Wiarton
Population	1,482	950	2,280		1,880
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	40.00	....	....	....	....
Substation equipment	2,657.65	....	....	....	....
Distribution system—overhead	13,028.84	7,734.94	36,845.41	5,315.57	21,247.36
Distribution system—underground	....	....	....	....	....
Line transformers	3,643.96	1,087.90	9,185.69	1,106.31	5,014.83
Meters	4,239.78	2,231.91	9,812.44	1,526.80	5,615.34
Street light equipment, regular	1,214.74	337.47	2,276.74	221.79	1,950.58
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	843.50	667.12	2,192.15	327.66	1,574.89
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	5,238.00	....	3,981.00
Total plant	25,668.47	12,059.34	65,550.43	8,498.13	39,384.00
Bank and cash balance	771.11	1,873.52	8,369.53	2,705.60	2,902.99
Securities and investments	8,000.00	....	....	....	....
Accounts receivable	769.43	62.56	411.47	184.36	2,121.85
Inventories	....	....	546.82	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	4,897.48	2,883.39	1,019.52	1,630.42	479.50
Other assets	....	....	....	....	....
Total assets	40,106.49	16,878.81	75,897.77	13,018.51	44,888.34
Deficit	....	....	....	....	....
Total	40,106.49	16,878.81	75,897.77	13,018.51	44,888.34
LIABILITIES					
Debenture balance	13,752.28	1,906.53	63,000.00	1,057.32	....
Accounts payable	35.60	521.33	9,019.38	568.87	41,341.06
Bank overdraft	....	....	....	....	....
Other liabilities	....	....	....	....	....
Total liabilities	13,787.88	2,427.86	72,019.38	1,626.19	41,341.06
RESERVES					
For equity in H-E.P.C. systems	4,897.48	2,883.39	1,019.52	1,630.42	479.50
For depreciation	3,385.52	3,218.69	1,066.00	2,024.49	451.04
Other reserves	....	....	....	....	....
Total reserves	8,283.00	6,102.08	2,085.52	3,654.91	930.54
SURPLUS					
Debentures paid	2,455.31	4,593.47	....	2,442.68	....
Local sinking fund	....	....	....	....	....
Operating surplus	15,580.30	3,755.40	1,792.87	5,294.73	2,616.74
Total surplus	18,035.61	8,348.87	1,792.87	7,737.41	2,616.74
Total liabilities, reserves and surplus	40,106.49	16,878.81	75,897.77	13,018.51	44,888.34
Percentage of net debt to total assets	39.2	17.3	96.2	14.3	93.1

"A"—Continued

Hydro Municipalities as at December 31, 1931

GEORGIAN BAY SYSTEM—Concluded				EASTERN ONTARIO SYSTEM			
Windermere 124	Wingham 2,229	Woodville 403	GEORGIAN BAY SYSTEM SUMMARY	Alexandria 2,370	Apple Hill P.V.	Athens 614	Belleville 13,443
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	8,423.66	....	107,848.04	202.00	169.06	....	1,147.78
....	4,699.84	....	171,907.23	....	....	....	2,343.65
8,360.43	39,178.39	2,909.80	1,105,070.96	27,743.17	2,864.70	13,914.98	102,511.14
....	....	....	66,437.67	....	....	....	....
2,835.65	15,252.01	1,850.73	357,889.25	7,842.14	1,288.37	1,757.05	21,459.54
813.36	13,323.76	1,949.44	383,263.94	7,015.45	939.30	2,420.61	53,040.55
236.36	3,292.12	143.53	129,663.27	2,224.20	421.12	698.90	17,221.49
....	....	....	....	....	....	....	....
....	5,115.34	251.91	101,341.99	5,656.43	210.33	1,011.61	7,394.56
....	13,592.99	....	46,874.99	....	....	....	....
....	12,320.02	2,182.50	183,297.87	4,466.89	709.55	....	....
12,245.80	115,198.13	9,287.91	2,653,595.21	55,150.28	6,602.43	19,803.15	205,118.71
194.15	30.00	723.94	127,523.18	4,603.75	104.32	2,005.92	20,428.81
....	9,000.00	6,500.00	247,351.64	5,000.00	....	....	....
375.77	4,825.81	37.85	85,085.60	1,619.73	108.03	334.70	14,303.98
....	3,923.71	....	19,227.08	....	....	....	7,444.20
....	....	....	28,222.77	....	....	....	....
332.36	14,243.23	5,253.44	663,305.72	13,868.19	1,310.62	1,454.76	35,261.87
....	....	....	8,199.99	....	....	....	....
13,148.08	147,220.88	21,803.14	3,832,511.19	80,241.95	8,125.40	23,598.53	282,557.57
....	....	....	43,092.89	....	490.39	....	....
13,148.08	147,220.88	21,803.14	3,875,604.08	80,241.95	8,615.79	23,598.53	282,557.57
....	42,759.52	3,319.87	726,427.10	24,653.55	3,939.38	12,727.99	64,000.00
11,540.04	....	329.38	242,215.80	2,008.94	182.65	2,298.04	....
....	1,597.14	....	24,136.62	....	....	....	....
911.00	292.00	....	7,932.03	140.98	....	....	4,798.27
12,451.04	44,648.66	3,649.25	1,000,711.55	26,803.47	4,122.03	15,026.03	68,798.27
332.36	14,243.23	5,253.44	663,305.72	13,868.19	1,310.62	1,454.76	35,261.87
364.68	17,800.56	1,907.22	559,042.71	8,816.24	1,122.52	1,095.75	10,183.75
....	....	....	1,452.29	325.25	....	....	749.84
697.04	32,043.79	7,160.66	1,223,800.72	23,009.68	2,433.14	2,550.51	46,195.46
....	53,345.98	2,180.13	801,755.28	23,480.29	2,060.62	1,272.01	112,000.00
....	....	....	28,222.77	....	....	....	....
....	17,182.45	8,813.10	821,113.76	6,948.51	....	4,749.98	55,563.84
....	70,528.43	10,993.23	1,651,091.81	30,428.80	2,060.62	6,021.99	167,563.84
13,148.08	147,220.88	21,803.14	3,875,604.08	80,241.95	8,615.79	23,598.53	282,557.57
97.2	33.6	22.1	31.0	40.4	60.5	67.9	27.8

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Bloomfield	Brighton	Brockville	Cardinal	Carleton Place
Population	637	1,343	9,432	1,249	4,278
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			45,286.76		6,255.32
Substation equipment	410.00		261.80		2,471.63
Distribution system—overhead	11,243.26	13,865.93	78,231.80	9,956.14	38,542.02
Distribution system—underground					
Line transformers	2,230.77	3,213.55	34,071.11	1,711.89	9,697.97
Meters	2,655.50	6,207.10	40,364.14	1,625.43	15,724.74
Street light equipment, regular	908.20	821.98	20,228.24	331.51	6,469.07
Street light equipment, ornamental					
Miscellaneous construction expense	1,403.42	356.52	3,469.31	807.12	3,944.28
Steam or hydraulic plant			54,727.45		
Old plant			4,821.76	3,474.80	5,293.19
Total plant	18,851.15	24,465.08	281,462.37	17,906.89	88,398.22
Bank and cash balance	970.74	2,040.89	8,036.61	93.38	5,694.99
Securities and investments			135,000.00		11,000.00
Accounts receivable	277.37	2,177.97	11,638.03	242.92	8,027.97
Inventories		5,243.04	2,825.53		852.06
Sinking fund on local debentures			65,728.07		
Equity in H-E.P.C. systems	1,686.29	2,032.82	70,981.87	529.27	30,458.75
Other assets					
Total assets	21,785.55	35,959.80	575,672.48	18,772.46	144,431.99
Deficit					
Total	21,785.55	35,959.80	575,672.48	18,772.46	144,431.99
Liabilities					
Debenture balance	7,986.94	24,223.74	83,120.22	14,546.36	48,324.55
Accounts payable	764.21	2,097.66	12,325.10	410.31	
Bank overdraft					
Other liabilities		81.00	14.25		625.00
Total liabilities	8,751.15	26,402.40	95,459.57	14,956.67	48,949.55
Reserves					
For equity in H-E.P.C. systems	1,686.29	2,032.82	70,981.87	529.27	30,458.75
For depreciation	3,015.96	1,105.00	57,564.48	358.00	7,704.44
Other reserves			2,000.00		
Total reserves	4,702.25	3,137.82	130,546.35	887.27	38,163.19
Surplus					
Debentures paid	3,213.06	776.26	143,537.32	453.64	17,675.45
Local sinking fund			65,728.07		
Operating surplus	5,119.09	5,643.32	140,401.17	2,474.88	39,643.80
Total surplus	8,332.15	6,419.58	349,666.56	2,928.52	57,319.25
Total liabilities, reserves and surplus	21,785.55	35,959.80	575,672.48	18,772.46	144,431.99
Percentage of net debt to total assets	43.6	77.8	6.8	82.	42.9

"A"—Continued

Hydro Municipalities as at December 31, 1931

Chesterville 1,000	Deseronto 1,331	Finch 365	Hastings 709	Havelock 1,142	Kemptville 1,227	Kingston 21,616
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
250.00	....	....	....	....	....	184,945.77
....	....	....	....	572.90	....	44,473.79
7,710.08	9,588.57	7,375.21	13,690.06	19,583.50	19,113.66	158,748.99
....	....	....	....	....	....	131,728.47
2,993.20	1,270.24	1,393.35	1,549.55	2,093.41	4,924.47	55,188.00
3,890.41	4,646.32	1,563.65	2,595.18	5,353.53	5,993.78	95,099.34
526.97	432.60	340.75	1,130.51	1,803.93	1,063.16	68,675.05
....	....	....	....	....	....	....
610.68	247.53	23.24	728.78	4,616.53	5,749.18	48,035.66
....	....	....	....	....	....	....
....	....	....	1,744.98	2,420.45	....	14,386.30
15,981.34	16,185.26	10,696.20	21,439.06	36,444.25	36,844.25	801,281.37
3,359.63	1,889.91	1,443.81	2,265.33	453.77	1,468.61	48,409.15
11,000.00	....	....	....	7,000.00	20,000.00	74,175.00
397.44	1,631.30	35.61	244.44	....	3,255.43	26,477.05
854.41	455.05	....	....	....	869.55	10,693.03
....	....	....	....	....	....	103,866.40
14,334.56	643.06	1,232.02	151.82	3,834.64	7,343.80	....
....	....	....	....	....	....	1,000.00
45,927.38	20,804.58	13,407.64	24,100.65	47,732.66	69,781.64	1,065,902.00
....	....	....	....	....	....	....
45,927.38	20,804.58	13,407.64	24,100.65	47,732.66	69,781.64	1,065,902.00
2,421.82	14,573.05	6,167.55	20,698.81	19,888.28	19,665.40	204,938.50
643.79	846.18	....	1,239.51	45.51	1,305.72	....
....	....	....	....	....	....	....
....	187.64	....	878.63	....	....	173.50
3,065.61	15,606.87	6,167.55	22,816.95	19,933.79	20,971.12	205,112.00
14,334.56	643.06	1,232.02	151.82	3,834.64	7,343.80	....
6,752.19	1,128.17	644.00	190.00	5,476.21	5,254.35	91,620.81
....	....	....	....	....	....	96,429.74
21,086.75	1,771.23	1,876.02	341.82	9,310.85	12,598.15	188,050.55
4,078.18	426.95	832.45	301.19	13,011.72	5,334.60	106,961.49
....	....	....	....	....	....	103,866.40
17,696.84	2,999.53	4,531.62	640.69	5,476.30	30,877.77	461,911.56
21,775.02	3,426.48	5,364.07	941.88	18,488.02	36,212.37	672,739.45
45,927.38	20,804.58	13,407.64	24,100.65	47,732.66	69,781.64	1,065,902.00
9.7	77.4	50.7	95.3	45.4	33.6	10.5

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Lakefield	Lanark	Lancaster	Lindsay	Madoc
Population	1,428	592	560	7,161	1,019
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	214.79			10,268.56	100.00
Substation equipment				3,176.56	
Distribution system—overhead	21,257.04	5,943.56	6,358.10	68,092.76	6,654.95
Distribution system—underground					
Line transformers	5,127.28	898.05	962.35	19,041.88	2,157.50
Meters	7,108.61	1,624.29	1,435.88	30,271.83	4,526.06
Street light equipment, regular	1,831.52	682.38	650.65	10,156.43	1,500.00
Street light equipment, ornamental					
Miscellaneous construction expense	3,484.54	321.60	1,068.55	2,013.81	109.25
Steam or hydraulic plant					
Old plant	3,445.25				
Total plant	42,469.03	9,469.88	10,475.53	143,021.83	15,047.76
Bank and cash balance	7,084.93	1,304.72	1,167.73	13,949.62	3,468.55
Securities and investments	10,775.36	1,982.05		45,000.00	
Accounts receivable	1,529.05	329.46	4.86	1,486.88	35.88
Inventories	30.22			616.62	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,828.71	2,324.04	3,316.20	21,842.26	1,244.51
Other assets				300.00	
Total assets	64,717.30	15,410.15	14,964.32	226,217.21	19,796.70
Deficit			6,902.21		
Total	64,717.30	15,410.15	21,866.53	226,217.21	19,796.70
Liabilities					
Debenture balance	27,537.07	4,336.59	4,679.38	117,605.85	1,836.85
Accounts payable	192.33		6,628.56		370.97
Bank overdraft					
Other liabilities	345.17			1,632.70	
Total liabilities	28,074.57	4,336.59	11,307.94	119,238.55	2,207.82
Reserves					
For equity in H-E.P.C. systems	2,828.71	2,324.04	3,316.20	21,842.26	1,244.51
For depreciation	8,155.40	1,396.10	1,951.35	11,274.60	573.15
Other reserves					
Total reserves	10,984.11	3,720.14	5,267.55	33,116.86	1,817.66
Surplus					
Debentures paid	5,962.93	3,224.88	5,291.04	12,394.15	12,163.15
Local sinking fund					
Operating surplus	19,695.69	4,128.54		61,467.65	3,608.07
Total surplus	25,658.62	7,353.42	5,291.04	73,861.80	15,771.22
Total liabilities, reserves and surplus	64,717.30	15,410.15	21,866.53	226,217.21	19,796.70
Percentage of net debt to total assets	45.4	33.2	97.1	58.3	11.9

"A"—Continued

Hydro Municipalities as at December 31, 1931

Marmora 1,013	Martintown P.V.	Maxville 742	Napanee 2,984	Norwood 756	Omemee 489	Oshawa 25,550
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
...	126.15	407.79	...	...	...	54,371.41
...	...	...	...	457.53	360.32	...
12,573.09	2,703.12	11,341.92	35,893.25	23,152.45	10,633.31	181,403.99
...	...	...	...	...	...	...
2,297.85	690.33	1,495.94	8,410.65	4,462.72	2,647.47	38,814.11
3,358.68	794.22	2,351.95	15,548.76	5,160.98	2,399.54	96,928.86
1,088.59	335.26	1,605.64	3,463.96	1,848.52	528.89	15,076.33
...	...	...	...	...	...	...
2,000.91	653.27	2,467.30	3,439.44	4,023.76	1,540.92	7,554.67
...	...	...	...	...	...	...
573.62	...	...	1,561.60	2,447.51	...	8,831.65
21,892.74	5,302.35	19,670.54	68,317.66	41,553.47	18,110.45	402,981.02
3,526.68	1,099.07	...	2,493.47	4,471.99	601.14	82,762.74
837.02	1,000.00	...	...	4,000.00	...	...
148.05	392.87	1,170.75	13,024.97	211.33	92.39	61,095.63
...	...	...	5,792.61	...	...	10,998.50
...	...	...	...	...	...	...
1,341.16	830.02	3,874.96	7,698.57	1,838.68	...	119,283.82
...	...	...	...	...	...	...
27,745.65	8,624.31	24,716.25	97,327.28	52,075.47	18,803.98	677,121.71
...	...	...	...	...	...	...
27,745.65	8,624.31	24,716.25	97,327.28	52,075.47	18,803.98	677,121.71
9,133.60	3,558.05	9,308.08	52,782.32	29,755.30	5,481.25	271,297.44
244.21	56.00	...	3,131.68	175.82	...	59,280.91
...	...	461.24	...	...	...	...
10.00	3.00	40.00	483.36	237.07	...	14,619.48
9,387.81	3,617.05	9,809.32	56,397.36	30,168.19	5,481.25	345,197.83
1,341.16	830.02	3,874.96	7,698.57	1,838.68	...	119,283.82
3,151.08	976.60	3,025.06	2,958.00	7,207.94	5,010.69	19,901.75
...	...	...	...	...	...	...
4,492.24	1,806.62	6,900.02	10,656.57	9,046.62	5,010.69	139,185.57
8,532.51	2,441.95	6,691.92	17,217.68	7,344.70	6,518.75	38,702.56
...	...	...	...	...	...	...
5,333.09	758.69	1,314.99	13,055.67	5,515.96	1,793.29	154,035.75
13,865.60	3,200.64	8,006.91	30,273.35	12,860.66	8,312.04	192,738.31
27,745.65	8,624.31	24,716.25	97,327.28	52,075.47	18,803.98	677,121.71
35.6	46.4	47.1	62.9	60.0	29.1	61.9

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Ottawa	Perth	Peterboro'	Picton	Port Hope
Population	125,496	3,762	22,487	3,146	4,415
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	271,354.05	6,600.50	75,202.75	1,405.07	....
Substation equipment	564,858.70	3,492.82	95,834.98	2,004.66	....
Distribution system—overhead	675,768.96	43,025.77	182,173.25	37,971.28	46,934.81
Distribution system—underground	195,043.97	....	....	....	....
Line transformers	284,376.57	21,377.60	93,694.35	11,345.91	11,300.70
Meters	267,861.01	20,429.14	88,643.82	15,727.28	19,542.97
Street light equipment, regular	84,377.85	3,939.32	53,037.00	4,131.66	2,598.32
Street light equipment, ornamental	30,992.40	....	....	....	....
Miscellaneous construction expense	33,567.35	5,345.56	55,381.39	2,811.36	740.95
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	23,610.69	29,771.74	3,105.28	....
Total plant	2,408,200.86	127,821.40	673,739.28	78,502.50	81,117.75
Bank and cash balance	1,675.52	18,635.46	1,994.16	50.00	1,998.98
Securities and investments	123,000.00	20,000.00	30,000.00	21,000.00	....
Accounts receivable	82,472.95	7,969.74	34,283.65	4,413.81	1,584.73
Inventories	23,239.95	7,121.56	6,917.23	4,883.21	1,605.94
Sinking fund on local debentures	567,830.78	....	181,813.96	....	....
Equity in H-E.P.C. systems	23,115.16	25,212.54	76,277.22	12,578.55	9,981.65
Other assets	....	....	....	....	....
Total assets	3,229,535.22	206,760.70	1,005,025.50	121,428.07	96,289.05
Deficit	....	....	....	....	....
Total	3,229,535.22	206,760.70	1,005,025.50	121,428.07	96,289.05
Liabilities					
Debenture balance	936,488.81	59,062.25	527,920.00	....	42,226.97
Accounts payable	66,104.94	....	22,441.16	1,372.15	447.83
Bank overdraft	45,385.01	....	....	3,489.53	....
Other liabilities	....	1,559.13	....	761.00	2,912.41
Total liabilities	1,047,978.76	60,621.38	550,361.16	5,622.68	45,587.21
Reserves					
For equity in H-E.P.C. systems	23,115.16	25,212.54	76,277.22	12,578.55	9,981.65
For depreciation	817,268.71	29,294.79	73,772.75	9,995.44	3,031.35
Other reserves	121,735.92	....	7,140.20	1,540.58	....
Total reserves	962,119.79	54,507.33	157,190.17	24,114.57	13,013.00
Surplus					
Debentures paid	43,511.19	49,337.75	....	5,730.32	36,773.03
Local sinking fund	567,830.78	....	181,813.96	....	....
Operating surplus	608,094.70	42,294.24	115,660.21	85,960.50	915.81
Total surplus	1,219,436.67	91,631.99	297,474.17	91,690.82	37,688.84
Total liabilities, reserves and surplus	3,229,535.22	206,760.70	1,005,025.50	121,428.07	96,289.05
Percentage of net debt to total assets	18.2	33.4	49.3	5.2	52.8

"A"—Continued

Hydro Municipalities as at December 31, 1931

Prescott	Richmond	Russell	Smiths Falls	Stirling	Tweed	Warkworth
2,940	367	P.V.	7,452	822	1,206	P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,761.54	....	....	19,928.85	8,410.00	....	....
....	....	....	4,745.66	7,117.12	....	....
38,355.47	5,940.38	7,716.76	85,196.67	5,007.22	10,019.79	5,488.18
....	....	....	....	....	....	....
12,556.72	769.40	1,382.48	24,185.49	3,571.08	2,843.41	548.10
18,027.83	1,136.31	1,458.78	31,805.16	4,759.69	4,604.40	1,476.00
1,630.21	161.29	499.49	9,296.63	1,020.00	999.88	299.74
....	....	....	....	....	....	....
1,418.88	612.67	1,191.88	7,431.73	770.24	497.01	624.19
....	....	....	....	....	....	....
11,808.35	....	....	59,549.97	....	....	3,618.02
86,559.00	8,620.05	12,249.39	242,140.16	30,655.35	18,964.49	12,054.23
1,395.17	54.99	1,527.33	822.86	3,617.58	2,162.14	228.45
3,000.00	....	....	42,000.00	5,666.37	....	....
1,934.81	132.34	475.57	6,459.32	1,239.34	582.49	2,991.65
....	....	....	402.94	1,351.10	1,909.26	....
....	....	....	....	....	....	....
19,492.45	387.52	2,166.89	40,591.43	1,553.43	839.41	895.96
....	....	....	....	....	....	....
112,381.43	9,194.90	16,419.18	332,416.71	44,083.17	24,457.79	16,170.29
....	....	....	....	....	....	....
112,381.43	9,194.90	16,419.18	332,416.71	44,083.17	24,457.79	16,170.29
....	5,937.49	8,024.54	93,474.02	....	18,410.04	9,832.08
....	495.00	480.77	....	87.55	301.96	....
....	....	....	....	....	....	....
....	....	....	....	....	275.00	....
....	6,432.49	8,505.31	93,474.02	87.55	18,987.00	9,832.08
19,492.45	387.52	2,166.89	40,591.43	1,553.43	839.41	895.96
26,670.77	486.00	1,095.70	51,749.67	8,950.55	1,098.13	821.17
....	....	....	....	....	....	....
46,163.22	873.52	3,262.59	92,341.10	10,503.98	1,937.54	1,717.13
23,979.34	562.51	1,975.46	104,150.98	10,000.00	589.96	1,167.92
....	....	....	....	....	....	....
42,238.87	1,326.38	2,675.82	42,450.61	23,491.64	2,943.29	3,453.16
66,218.21	1,888.89	4,651.28	146,601.59	33,491.64	3,533.25	4,621.08
112,381.43	9,194.90	16,419.18	332,416.71	44,083.17	24,457.79	16,170.29
0.0	73.0	59.7	32.	0.2	80.4	64.4

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

Municipality Population	Wellington 900	Whitby 5,463	Williamsburg P.V.	Winchester 970	EASTERN ONTARIO SYSTEM SUMMARY
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	200.00	6,394.26		299.85	696,302.26
Substation equipment	499.80	34,200.41			767,282.33
Distribution system—overhead	14,579.64	44,584.54	2,109.03	9,527.84	2,135,090.34
Distribution system—underground					326,772.44
Line transformers	3,670.23	10,277.00	416.89	2,234.90	724,241.57
Meters	5,056.43	13,840.69	1,064.77	4,729.73	920,808.70
Street light equipment, regular	991.02	4,291.51	152.11	719.87	330,211.75
Street light equipment, ornamental					30,992.40
Miscellaneous construction expense	784.78	5,851.71	4.00	471.83	230,448.73
Steam or hydraulic plant					54,727.45
Old plant	2,477.92	1,340.13		1,100.00	190,559.65
Total plant	28,259.82	120,780.25	3,746.80	19,084.02	6,407,437.62
Bank and cash balance	252.98	3,707.15	498.06	395.45	264,216.54
Securities and investments	5,000.00		2,500.00	8,000.00	586,935.80
Accounts receivable	341.48	3,754.67	110.62	802.72	299,843.98
Inventories		163.23		1,466.36	95,735.60
Sinking fund on local debentures					919,239.21
Equity in H-E.P.C. systems	2,337.42	12,578.30	1,643.34	8,557.75	589,756.29
Other assets					1,300.00
Total assets	36,191.70	140,983.60	8,498.82	38,306.30	9,164,465.04
Deficit					7,392.60
Total	36,191.70	140,983.60	8,498.82	38,306.30	9,171,857.64
LIABILITIES					
Debenture balance	12,309.32	43,462.38	600.78	6,852.32	2,873,788.92
Accounts payable	20.35	40.82	368.16	807.25	187,216.04
Bank overdraft					49,335.78
Other liabilities		693.61			30,471.20
Total liabilities	12,329.67	44,196.81	968.94	7,659.57	3,140.811,94
RESERVES					
For equity in H-E.P.C. systems	2,337.42	12,578.30	1,643.34	8,557.75	589,756.29
For depreciation	4,538.54	11,221.53	1,535.90	5,839.18	1,314,983.77
Other reserves					229,921.53
Total reserves	6,875.96	23,799.83	3,179.24	14,396.93	2,134,661.59
SURPLUS					
Debentures paid	4,690.68	33,150.12	2,149.22	3,797.68	883,467.61
Local sinking fund					919,239.21
Operating surplus	12,295.39	39,836.84	2,201.42	12,452.12	2,093,677.29
Total surplus	16,986.07	72,986.96	4,350.64	16,249.80	3,896,384.11
Total liabilities, reserves and surplus	36,191.70	140,983.60	8,498.82	38,306.30	9,171,857.64
Percentage of net debt to total assets	36.4	34.4	14.1	25.7	29.0

"A"—Concluded

Hydro Municipalities as at December 31, 1931

THUNDER BAY SYSTEM				
Fort William 24,635	Nipigon P.V.	Port Arthur 20,092	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.
48,927.62	215.03	353,971.99	403,114.64	8,407,664.48
123,537.06	...	240,367.20	363,904.26	21,013,956.74
148,214.35	12,599.11	426,643.84	587,457.30	19,918,355.76
...	...	...	...	5,361,627.24
60,725.40	2,497.84	64,725.31	127,948.55	8,649,875.07
57,513.01	1,867.81	85,978.54	145,359.36	8,106,202.88
29,717.39	606.24	73,731.29	104,054.92	2,205,613.18
...	...	...	...	1,456,742.91
6,215.58	77.03	31,092.41	37,385.02	3,827,132.05
...	...	343,595.66	343,595.66	458,374.05
293,762.46	...	...	293,762.46	7,146,437.96
768,612.87	17,863.06	1,620,106.24	2,406,582.17	86,551,982.32
42,283.76	1,863.41	27,371.91	71,519.08	2,738,319.67
...	...	595,211.12	595,211.12	1,999,846.42
26,453.00	628.17	202,090.14	229,171.31	3,957,972.78
...	...	22,447.75	22,447.75	1,276,531.01
144,258.68	...	260,848.77	405,107.45	8,735,050.84
158,980.96	888.07	561,664.61	721,533.64	20,103,275.76
260.00	...	1,380.56	1,640.56	174,879.28
1,140,849.27	21,242.71	3,291,121.10	4,453,213.08	125,537,858.08
...	...	...	...	62,838.57
1,140,849.27	21,242.71	3,291,121.10	4,453,213.08	125,600,696.65
415,500.00	7,718.16	418,100.00	841,318.16	44,594,400.03
32,729.76	898.18	248,855.20	282,483.14	5,382,306.13
...	...	25,160.60	25,160.60	312,575.54
9,405.70	...	...	9,405.70	1,909,986.13
457,635.46	8,616.34	692,115.80	1,158,367.60	52,199,267.83
158,980.96	888.07	561,664.61	721,533.64	20,103,275.76
52,380.87	2,061.00	315,316.33	369,758.20	13,748,049.68
3,711.35	...	53,919.62	57,630.97	1,693,129.83
215,073.18	2,949.07	930,900.56	1,148,922.81	35,544,455.27
252,150.00	2,281.84	218,000.00	472,431.84	13,150,040.37
144,258.68	...	260,848.77	405,107.45	8,735,050.84
71,731.95	7,395.46	1,189,255.97	1,268,383.38	15,971,882.34
468,140.63	9,677.30	1,668,104.74	2,145,922.67	37,856,973.55
1,140,849.27	21,242.71	3,291,121.10	4,453,213.08	125,600,696.65
37.4	42.3	17.5	22.6	44.1

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alvinston	Amherstburg
Population	1,951	P.V.	516	657	3,083
Earnings	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	10,177.68	4,702.56	2,572.77	4,546.57	20,297.83
Commercial light service	3,487.21	960.47	1,406.28	2,857.27	7,384.31
Commercial power service	16,500.61	1,876.73	2,821.91	560.75	6,314.37
Municipal power	659.76	....	....	345.40	....
Street lighting	1,795.50	728.00	578.00	1,854.00	2,001.04
Merchandise	....	....	....	....	....
Miscellaneous	90.53	50.46	224.52	90.72	434.92
Total earnings	32,711.29	8,318.22	7,603.48	10,254.71	36,432.47
Expenses					
Power purchased	24,347.44	5,210.91	5,818.42	7,285 20	23,075.71
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	2,100.92	167.10	264.11	28.81	2,719.70
Line transformer maintenance	23.59	....	....	....	14.10
Meter maintenance	126.01	....	....	15.55	325.81
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	283.50	62.79	73.49	68.25	526.53
Promotion of business	195.35	....	....	....	....
Billing and collecting	....	....	195.89	262.50	1,822.70
General office, salaries and expenses	1,080.02	367.22	78.02	253.62	671.21
Undistributed expenses	499.77	....	20.00	34.52	351.57
Truck operation and maintenance	363.51	....	....	....	410.61
Interest	96.35	310.77	34.89	850.21	1,588.98
Sinking fund and principal payments on debentures	589.19	499.42	241.82	941.90	1,172.44
Depreciation	1,283.00	331.00	474.00	549.00	1,670.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	30,988.65	6,949.21	7,200.64	10,289.56	34,349.36
Net surplus	1,722.64	1,369.01	402.84	....	2,083.11
Net loss	....	....	....	34.85	....
Number of Consumers					
Domestic service	480	138	126	154	645
Commercial light service	84	23	39	56	138
Power service	18	3	3	3	16
Total	582	164	168	213	799

"B"

Hydro Municipalities for Year Ended December 31, 1931

Ancaster Twp. 3,119	Arkona 383	Aylmer 1,996	Ayr 776	Baden P.V.	Beachville P.V.	Belle River 715	Blenheim 1,630
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
8,952 64	2,447 61	11,343.60	4,676 23	3,494.94	3,009.00	4,189.51	8,267.33
1,697 38	1,548.92	7,649.53	1,768.46	1,430.49	880.77	1,534.34	6,341.53
494.97	975.07	4,044.17	1,234.38	4,952.44	7,433.81	550.52	4,117.20
128.28	....	1,057.42	....	....	....	867.63	949.54
819.50	960.00	2,270.00	1,028.00	520.00	517.00	827.75	2,414.67
....	80	....	....	....	....	....	....
18.28	4.27	1,236.05	26.71	87.04	660.83	175.62	106.50
12,111.05	5,936.67	27,600.77	8,733.78	10,484.91	12,501.41	8,145.37	22,196.77
7,106.82	4,008.44	15,955.12	6,292.06	8,522.79	9,509.13	5,141.25	13,988.72
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
1,730.25	120.38	3,487.56	401.26	443.58	527.73	466.75	1,836.45
....	....	135.70	3.81	....	25.00	25.00	4.70
22.75	....	26.15	50.27	46.55	124.49	50.38	286.41
....	....	....	....	....	....	....	....
107.35	63.18	115.94	144.37	262.69	95.87	47.22	187.16
....	....	....	....	....	....	....	....
....	165.00	480.48	548.32	385.44	424.02	355.41	1,145.22
1,536.72	164.46	1,133.88	34.83	84.66	14.51	86.56	215.28
....	....	135.95	20.00	23.44	33.07	10.37	211.58
....	....	....	....	....	....	....	....
538.62	837.28	1,357.56	398.57	135.09	156.68	393.80	581.25
259.08	506.02	1,150.36	317.48	190.17	202.51	347.45	424.36
758.00	292.00	1,330.00	507.00	348.00	558.00	563.00	1,221.00
....	....	....	....	....	....	....	....
12,059.59	6,156.76	25,308.70	8,717.97	10,442.41	11,671.01	7,487.19	20,102.13
51.46	....	2,292.07	15.81	42.50	830.40	658.18	2,094.64
....	220.09	....	....	....	....	....	....
262	98	601	193	130	128	180	486
39	40	134	45	33	28	51	126
5	3	12	4	3	4	4	12
306	141	747	242	166	160	235	624

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Blyth	Bolton	Bothwell	Brampton	Brantford
Population	621	609	575	5,137	30,103
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	3,688.22	2,829.29	2,731.71	35,786.15	166,278.09
Commercial light service	1,800.63	999.79	1,360.55	15,738.99	47,771.08
Commercial power service	779.15	2,367.12	715.58	13,939.51	100,562.01
Municipal power	....	....	163.33	2,305.67	27,309.16
Street lighting	1,300.00	1,003.75	1,293.00	5,191.35	33,996.43
Merchandise	....	....	....	90.85	....
Miscellaneous	10.45	16.40	591.06	933.78	780.00
Total earnings	7,578.45	7,216.35	6,855.23	73,986.30	376,696.77
EXPENSES					
Power purchased	4,793.05	5,389.89	4,472.95	55,135.34	238,418.54
Substation operation	....	....	....	329.46	5,435.60
Substation Maintenance	....	....	....	....	1,131.40
Distribution system, operation and maintenance	395.08	297.30	694.19	1,538.75	12,763.05
Line transformer maintenance	....	....	....	97.47	1,418.90
Meter maintenance	....	....	....	622.61	600.34
Consumers' premises expenses	....	....	....	....	404.39
Street lighting, operation and maintenance	91.55	107.35	121.62	427.79	4,778.13
Promotion of business	....	....	....	....	167.06
Billing and collecting	....	....	178.74	1,518.65	8,151.61
General office, salaries and expenses	204.96	491.62	402.25	3,049.59	9,072.02
Undistributed expenses	....	....	24.50	415.47	6,476.16
Truck operation and maintenance	....	....	....	435.41	2,749.01
Interest	642.78	384.35	211.68	908.83	21,068.70
Sinking fund and principal payments on debentures	888.28	484.66	151.57	3,870.66	22,971.21
Depreciation	420.00	513.00	495.00	4,252.00	21,501.00
Other reserves	....	....	....	....	285.70
Total operating costs and fixed charges	7,435.70	7,668.17	6,752.50	72,602.03	357,392.82
Net surplus	142.75	....	102.73	1,384.27	19,303.95
Net loss	....	451.82	....	....	....
NUMBER OF CONSUMERS					
Domestic service	160	151	161	1,357	6,515
Commercial light service	49	42	49	229	776
Power service	4	9	5	54	115
Total	213	202	215	1,640	7,406

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Brantford Twp. 7,595	Bridgeport P.V.	Brigden P.V.	Brussels 725	Burford P.V.	Burgessville P.V.	Caledonia 1,456	Campbellville P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,468.45	3,383.14	2,407.98	5,324.30	4,324.12	1,343.15	5,200.46	1,362.14
4,069.17	1,018.37	1,745.58	2,366.11	943.69	592.57	4,518.22	458.93
3,903.96	729.64	934.89	607.88	1,786.23	1,072.05	2,241.53	....
....	....	....	....	....	....	....	....
4,244.00	570.00	1,162.63	1,272.00	804.00	312.00	1,607.91	456.00
....	....	....	....	....	....	....	....
874.79	....	107.74	7.08	170.71	32.44	112.02	58.60
32,560.37	5,701.15	6,358.82	9,577.37	8,028.75	3,352.21	13,680.14	2,335.67
15,958.65	3,865.62	4,697.55	6,703.61	4,614.65	2,474.46	8,531.90	1,493.28
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
3,472.44	213.19	389.84	435.71	183.88	34.65	963.18	10.90
57.82	68.00	....	....	14.77	....	1.60	....
186.87	34.22	....	....	65.91	....	25.10	....
....	....	....	....	....	....	....	....
660.23	86.41	94.81	109.52	65.57	32.27	164.71	7.00
....	....	....	....	....	....	....	....
1,728.25	91.01	340.60	396.32	423.65	103.48	687.27	....
1,431.85	321.86	234.01	....	95.31	6.81	300.93	98.21
109.59	24.50	20.00	....	25.08	15.00	58.66	....
....	....	....	....	....	....	....	....
1,746.37	609.32	123.27	881.16	71.13	77.59	148.15	259.33
3,062.65	....	242.75	876.12	330.08	228.02	214.02	228.90
2,364.00	458.00	324.00	513.00	432.00	180.00	698.00	109.00
....	....	....	....	....	....	....	....
30,778.72	5,772.13	6,466.83	9,915.44	6,322.03	3,152.28	11,793.52	2,206.62
1,781.65	....	....	....	1,706.72	199.93	1,886.62	129.05
....	70.98	108.01	338.07	....	....	....	....
765	105	110	207	186	55	305	40
44	19	39	62	33	21	87	8
5	4	4	2	4	3	8	..
814	128	153	271	223	79	400	48

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population	661	16,441	1,222	496	1,911
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,905.53	77,643.30	7,130.73	2,171.95	11,497.61
Commercial light service	2,558.62	71,246.60	1,679.08	1,483.26	5,844.46
Commercial power service	1,573.82	55,060.23	744.59	124.31	4,829.55
Municipal power	....	4,762.12	774.85	....	895.56
Street lighting	1,539.96	18,513.75	1,080.00	833.00	1,963.96
Merchandise	....	718.68	....	....	812.27
Miscellaneous	....	1,797.36	....	33.63	342.68
Total earnings	8,577.93	229,742.04	11,409.25	4,646.15	26,186.09
EXPENSES					
Power purchased	3,766.41	113,854.44	5,898.90	3,713.99	15,771.98
Substation operation	....	8,524.88	....	....	....
Substation maintenance	....	2,968.52	....	....	69.17
Distribution system, operation and maintenance	489.90	6,786.62	874.88	19.74	254.38
Line transformer maintenance	1.82	2,238.78	22.00	....	26.94
Meter maintenance	81.37	5,845.59	109.44	8.90	173.27
Consumers' premises expenses	....	148.13	....	....	....
Street lighting, operation and maintenance	50.33	7,950.42	346.96	22.19	189.94
Promotion of business	28.48	....	....	....	....
Billing and collecting	620.78	8,863.00	....	320.29	728.80
General office, salaries and expenses	199.08	16,354.20	1,018.39	76.38	1,809.88
Undistributed expenses	50.91	4,640.14	....	33.21	356.01
Truck operation and maintenance	....	1,614.17	....	....	164.28
Interest	888.70	15,894.06	553.90	398.16	2,169.37
Sinking fund and principal payments on debentures	790.89	12,877.94	658.96	152.29	1,305.66
Depreciation	547.00	17,719.43	816.00	251.00	1,734.00
Other reserves	252.94	....	....	....	260.67
Total operating costs and fixed charges	7,768.61	226,280.32	10,299.43	4,996.15	25,014.35
Net surplus	809.32	3,461.72	1,109.82	....	1,171.74
Net loss	....	....	....	350.00	....
NUMBER OF CONSUMERS					
Domestic service	106	3,785	293	100	512
Commercial light service	53	741	33	39	128
Power service	4	104	6	1	15
Total	163	4,630	332	140	655

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Comber	Cottam	Courtright	Dashwood	Delaware	Dorchester	Drayton	Dresden
P.V.	P.V.	370	P.V.	P.V.	P.V.	559	1,403
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,538.42	2,501.11	1,923.46	1,840.15	1,327.34	2,608.51	2,976.24	5,955.44
2,022.69	1,588.37	979.79	1,024.65	774.87	980.67	1,908.35	5,107.79
2,633.12	380.00	936.89	1,335.65	....	435.67	1,098.45	5,229.98
....	....	....	....	....	....	....	458.88
732.00	445.00	774.00	492.00	252.00	640.56	750.00	1,867.04
....	....	....	....	....	....	....	....
91.08	6.55	5.81	38.25	142.66	96.71	279.58	150.11
8,017.31	4,924.03	4,619.95	4,730.70	2,496.87	4,762.12	7,012.62	18,769.24
6,080 13	2,720.11	2,622.57	3,308.40	1,340.82	2,682.27	5,548.00	12,563.08
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
281.74	128.52	77.73	141.12	61.46	222.73	326.97	1,099.59
....	....	....	....	....	....	....	....
....	12.62	....	....	....	21.03	62.00	....
....	....	....	....	....	....	....	....
64.11	44.08	51.25	57.37	19.58	23.56	31.65	26.23
....	....	....	....	....	....	....	31.51
376.56	....	....	....	....	169.20	....	746.59
221.60	428.99	180.01	82.75	142.33	10.83	180.45	740.83
50.64	....	....	....	....	15.71	20.00	89.36
....	....	....	....	....	....	....	....
166.04	433.37	313.70	134.82	128.77	149.26	433.85	157.38
426.09	319.77	528.12	99.28	131.44	134.52	256.31	1,182.38
412.00	313.00	200.00	186.00	145.00	307.00	465.00	833.00
....	....	....	....	....	....	....	....
8,078.91	4,400.46	3,973.38	4,009.74	1,969.40	3,736.11	7,324.23	17,469.95
....	523.57	646.57	720.96	527.47	1,026.01	....	1,299.29
61.60	....	....	....	....	....	311.61	....
104	104	62	67	50	128	154	434
44	33	22	26	20	28	61	116
3	1	2	1	....	1	5	14
151	138	86	94	70	157	220	564

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population	P.V.	P.V.	5,137	3,412	801
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,021.92	1,246.49	19,784.23	12,099.05	3,354.37
Commercial light service	908.90	887.64	11,793.00	11,763.25	2,563.78
Commercial power service	865.77	500.72	20,242.26	12,518.80	3,266.15
Municipal power	....	....	1,116.14	2,527.70	....
Street lighting	538.00	750.00	6,283.15	3,964.28	946.50
Merchandise	....	....	306.91	76.74	29.13
Miscellaneous	29.17	....	210.78	....	231.40
Total earnings	4,363.76	3,384.85	59,736.47	42,949.82	10,391.33
EXPENSES					
Power purchased	2,495.30	2,418.28	36,793.22	23,462.43	7,377.84
Substation operation	....	....	93.13	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	32.11	25.50	5,293.29	1,345.51	68.87
Line transformer maintenance	....	....	63.44	37.67	1.25
Meter maintenance	2.76	....	881.05	133.20	134.60
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	105.63	90.18	435.88	324.44	43.90
Promotion of business	....	....	....	....	....
Billing and collecting	233.60	145.00	1,256.50	....	682.65
General office, salaries and expenses	38.71	36.84	1,844.43	2,531.22	359.59
Undistributed expenses	15.00	19.50	1,113.51	256.53	47.33
Truck operation and maintenance	....	....	632.78	208.51	....
Interest	154.30	210.64	1,714.49	3,142.95	343.95
Sinking fund and principal payments on debentures	147.85	394.65	1,878.21	2,221.09	303.13
Depreciation	245.00	250.00	3,672.00	2,925.00	513.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	3,470.26	3,590.59	55,671.93	36,588.55	9,876.11
Net surplus	893.50	....	4,064.54	6,361.27	515.22
Net loss	....	205.74	....	....	....
NUMBER OF CONSUMERS					
Domestic service	82	37	1,172	658	203
Commercial light service	24	23	186	188	71
Power service	2	3	39	32	7
Total	108	63	1,397	878	281

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

East Windsor 16,203	East York Twp. 30,556	Elmira 2,940	Elora 1,306	Embro 443	Erieau 202	Erie Beach 23	Essex 1,880
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
77,126.15	166,304.83	16,552.29	7,421.51	2,808.82	3,343.46	1,454.99	8,291.80
23,618.38	20,851.31	6,046.20	3,658.17	1,767.87	1,060.49	197.18	5,817.00
46,059.43	37,671.31	5,075.09	7,980.93	1,446.67	895.54	....	5,200.91
....	4,051.34	820.33	....	....	....	....	1,742.92
9,003.57	18,191.02	1,846.00	1,678.32	702.00	373.50	....	3,249.44
....	....	....	314.18	....	....	....	....
....	577.67	901.98	256.91	....	....	1.65	383.26
155,807.53	247,647.48	31,241.89	21,310.02	6,725.36	5,672.99	1,653.82	24,685.33
90,483.10	145,616.32	23,846.77	14,028.57	3,530.20	3,720.25	969.81	12,240.75
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
3,952.21	9,883.36	2,188.07	2,626.33	240.78	187.99	120.47	561.64
1,135.47	942.13	166.40	....	....	18.35	....	59.53
4,340.10	2,409.46	55.91	62.92	53.96	58.53	....	112.19
1,248.75	1,023.46	161.64	....	....	....	....	....
2,858.17	2,164.80	138.50	83.11	114.95	48.75	....	265.35
341.53	15.00	13.61	....	....	....	....	....
10,798.51	10,280.27	974.44	639.64	338.92	281.59	....	264.58
3,267.74	11,321.33	1,016.60	363.54	38.93	34.28	172.26	2,929.28
4,145.39	3,203.71	464.25	463.28	23.52	15.00	10.00	358.52
....	4,261.44	248.41	125.11	....	....	....	333.04
4,765.69	15,101.68	1,741.60	315.06	260.79	347.31	174.46	1,153.67
6,037.04	12,892.86	1,411.27	662.30	387.02	289.22	113.24	428.30
7,065.00	11,322.00	1,952.00	995.00	430.00	289.00	73.00	1,510.00
....	228.87	....	....	....	....	....	....
140,438.70	230,666.69	34,379.47	20,364.86	5,419.07	5,290.27	1,633.24	20,216.85
15,368.83	16,980.79	....	945.16	1,306.29	382.72	20.58	4,468.48
....	....	3,137.58	....	....	....	....	....
2,713	8,430	512	303	98	121	66	451
294	367	117	75	47	13	3	102
49	36	20	3	2	2	....	20
3,056	8,833	649	381	147	136	69	573

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Etobicoke* Twp.	Exeter	Fergus	Fonthill	Forest
Population	15,050	1,606	2,465	833	1,405
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	78,556.69	11,496.96	14,116.96	5,121.68	10,568.40
Commercial light service	16,970.15	5,313.84	6,881.57	827.89	5,129.94
Commercial power service	14,112.81	4,968.98	11,192.95	539.52	4,303.95
Municipal power	1,476.10	543.55	558.98	....	950.24
Street lighting	12,672.81	1,899.00	2,629.68	1,050.00	2,321.00
Merchandise	....	407.53	....	....	....
Miscellaneous	2,655.54	467.57	....	13.58	483.49
Total earnings	126,444.10	25,097.43	35,380.14	7,552.67	23,757.02
EXPENSES					
Power purchased	71,005.91	14,630.87	23,204.67	4,092.77	13,477.06
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	8,437.61	410.82	1,481.75	556.87	1,702.96
Line transformer maintenance	1,168.79	102.48	154.97	....	....
Meter maintenance	1,257.54	177.18	238.43	77.85	343.32
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	1,345.30	283.41	201.03	33.31	326.15
Promotion of business	49.05	20.24	185.45	....	90.51
Billing and collecting	4,931.82	546.12	449.58	....	608.06
General office, salaries and expenses	3,905.57	2,808.21	933.55	494.37	1,698.28
Undistributed expenses	2,683.64	204.32	285.36	....	216.87
Truck operation and maintenance	2,207.16	364.70	400.50	....	351.29
Interest	12,914.50	547.87	1,574.55	1,079.62	752.97
Sinking fund and principal payments on debentures	10,057.37	871.18	2,519.53	919.27	949.51
Depreciation	9,662.00	1,283.00	1,371.00	446.00	1,394.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	129,626.26	22,250.40	33,000.37	7,700.06	21,910.98
Net surplus	....	2,847.03	2,379.77	....	1,846.04
Net loss	3,182.16	....	....	147.39	....
NUMBER OF CONSUMERS					
Domestic service	2,908	443	608	199	453
Commercial light service	269	119	116	28	131
Power service	21	10	16	4	23
Total	3,198	572	740	231	607

*1,164 consumers transferred to Long Branch.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Galt 13,752	George-town 1,997	Glencoe 779	Goderich 4,113	Granton P.V.	Guelph 20,393	Hagers-ville 1,265	Hamilton 144,529
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
105,969.99	13,255.44	5,411.85	27,898.71	1,756.50	101,228.46	4,707.60	886,313.22
43,677.69	5,666.15	3,561.05	13,134.22	1,059.15	48,493.53	4,680.82	316,448.95
75,844.37	20,536.40	2,159.39	11,775.69	948.32	89,943.74	23,176.75	1,341,798.40
3,394.70	818.92	1,213.30	2,961.46	....	19,569.54	....	77,385.69
22,502.00	2,099.81	1,934.04	3,796.00	370.00	23,279.87	1,732.00	106,112.74
....	....	....	95.46	....	111.78	....	....
3,180.00	544.46	5.99	70.37	78.71	3,339.62	671.64	32,524.70
254,568.75	42,921.18	14,285.62	59,731.91	4,212.68	285,966.54	34,968.81	2,760,583.70
157,903.76	33,972.80	9,222.93	39,881.16	2,885.31	197,488.02	26,608.86	1,858,950.16
4,445.56	....	....	2,136.87	....	....	....	54,281.66
295.89	....	....	....	....	4,042.29	....	13,388.35
2,412.19	1,771.56	655.51	2,754.92	218.98	5,939.68	2,633.74	38,631.01
208.60	19.77	....	622.98	....	707.67	117.95	11,913.29
2,933.11	485.15	....	27.28	....	4,045.17	134.35	14,893.08
....	....	....	....	....	....	....	10,865.04
2,949.86	109.35	200.08	321.37	112.27	6,989.06	262.08	12,326.17
1,625.03	....	....	....	....	2,188.42	....	10,514.80
2,959.71	....	593.73	489.99	136.00	6,013.42	829.22	43,321.97
4,351.19	2,970.15	532.00	2,822.40	41.80	6,992.91	424.88	50,926.64
6,035.83	489.53	59.12	620.62	15.00	4,784.21	179.83	39,464.08
387.10	499.13	68.90	271.81	....	1,706.89	440.14	....
20,250.15	771.77	624.45	2,898.54	148.20	4,179.61	211.78	211,754.56
17,931.26	681.21	881.79	2,020.50	106.07	4,169.29	339.02	236,547.32
21,554.00	1,856.00	836.00	4,731.00	207.00	12,590.00	998.00	133,723.72
....	....	....	55.77	....	....	....	....
246,243.24	43,626.42	13,674.51	59,655.21	3,870.63	261,836.64	33,179.85	2,741,501.85
8,325.51	....	611.11	76.70	342.05	24,129.90	1,788.96	19,081.85
....	705.24	....	....	....	....	....	....
3,519	646	220	1,160	78	4,916	300	36,896
507	126	83	237	32	718	109	5,316
125	24	6	17	1	148	16	1,340
4,151	796	309	1,414	111	5,782	425	43,552

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Harriston	Harrow	Hensall	Hespeler	Highgate
Population	1,325	830	727	2,769	315
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,045.09	8,298.58	4,240.10	18,254.74	1,726.12
Commercial light service	4,341.34	4,563.08	2,016.11	5,787.18	1,156.92
Commercial power service	5,232.33	4,685.17	2,644.16	27,942.77	1,523.25
Municipal power	457.63	....	....	950.84	....
Street lighting	1,199.00	877.93	925.00	2,775.00	559.16
Merchandise	....	....	....	....	....
Miscellaneous	8.88	97.10	132.62	25.00	142.93
Total earnings	18,284.27	18,521.86	9,957.99	55,735.53	5,108.38
EXPENSES					
Power purchased	13,960.79	12,766.25	6,841.72	42,566.72	3,280.61
Substation operation	....	....	....	389.99	....
Substation maintenance	....	....	....	17.95	....
Distribution system, operation and maintenance	1,306.58	190.30	855.57	2,786.98	129.60
Line transformer maintenance	....	111.93	....	22.61	....
Meter maintenance	313.26	413.55	110.22	65.06	5.90
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	248.26	326.95	115.73	228.69	15.40
Promotion of business	....	....	....	....	....
Billing and collecting	584.50	....	327.73	838.69	404.96
General office, salaries and expenses	325.88	817.26	476.68	1,261.13	64.55
Undistributed expenses	76.82	....	50.00	574.81	19.50
Truck operation and maintenance	240.32	....	....	274.86	....
Interest	783.80	588.67	465.85	1,669.04	176.26
Sinking fund and principal payments on debentures	1,485.88	462.73	396.58	2,764.58	149.00
Depreciation	877.00	666.00	576.00	2,465.00	322.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	20,203.09	16,343.64	10,216.08	55,926.11	4,567.78
Net surplus	....	2,178.22	....	....	540.60
Net loss	1,918.82	....	258.09	190.58	....
NUMBER OF CONSUMERS					
Domestic service	321	228	177	683	97
Commercial light service	95	77	59	108	34
Power service	13	5	13	25	6
Total	429	310	249	816	137

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Humberstone 1,926	Ingersoll 5,150	Jarvis 479	Kingsville 2,200	Kitchener 30,274	Lambeth P.V.	La Salle 574	Leamington 5,313
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,399.77	32,496.04	1,839.80	13,183.82	190,049.23	3,841.48	8,601.20	25,478.62
2,870.47	16,030.34	1,457.80	7,030.39	106,891.03	1,370.74	2,430.77	16,385.27
2,651.46	22,960.57	4,178.44	2,332.25	223,364.46	....	2,667.74	11,149.62
....	1,861.77	....	1,166.01	23,412.21	308.43	....	5,508.37
1,299.00	4,675.87	840.00	4,071.04	30,728.12	441.00	995.50	7,292.70
....	168.29	....	....	....	....	....	....
182.45	1,031.14	101.59	1,112.17	4,217.72	8.94	....	866.02
16,403.15	79,224.02	8,417.63	28,895.68	578,662.77	5,970.59	14,698.21	66,680.60
8,984.81	55,641.94	6,467.48	15,581.65	395,702.80	3,655.33	8,033.83	37,602.60
....	....	....	....	8,144.25	....	....	....
....	524.78	....	....	2,229.78	....	....	....
879.33	2,933.07	64.81	3,058.54	15,739.44	382.72	1,419.96	4,232.91
157.30	956.06	3.30	71.39	835.28	....	....	36.57
439.05	610.33	59.60	353.30	5,603.17	....	18.79	398.43
....	....	....	....	391.97	....	....	....
259.60	670.31	25.54	676.42	11,319.47	89.26	183.14	607.96
....	....	....	....	3,091.19	....	....	....
....	1,422.72	429.59	1,032.80	12,004.57	....	....	1,443.21
889.03	4,876.85	106.82	1,241.61	10,014.58	281.66	676.25	3,105.07
....	1,268.72	24.70	551.78	5,503.01	20.00	....	1,402.97
179.52	540.56	....	213.90	2,385.64	....	227.14	612.57
1,426.19	3,335.29	440.59	1,835.81	13,464.07	191.63	749.23	2,421.65
2,000.00	1,677.35	438.05	601.08	21,879.91	121.25	563.88	1,850.97
977.00	3,597.00	350.00	1,724.00	26,860.63	292.00	724.00	2,935.00
....	71.48	....	....	....	....	....	....
16,191.83	78,126.46	8,410.48	26,942.28	535,169.76	5,033.85	12,596.22	56,649.91
211.32	1,097.56	7.15	1,953.40	43,493.01	936.74	2,101.99	10,030.69
....	....	....	....	....	....	....	....
500	1,315	105	704	6,926	110	206	1,287
69	249	38	170	950	23	22	238
7	43	4	13	247	1	4	30
576	1,607	147	887	8,123	134	232	1,555

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Listowel	London	London Twp.	Long Branch*	Lucan
Population	2,712	69,742	7,932	4,016	588
Earnings	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	17,778.07	467,760.94	10,111.79	21,399.24	4,906.53
Commercial light service	8,609.18	200,342.80	1,830.00	6,138.56	1,798.88
Commercial power service	11,119.89	356,593.66	1,359.84	1,062.01	1,671.85
Municipal power	1,470.34	34,916.72	....	766.90	....
Street lighting	3,465.66	52,098.81	949.00	3,281.15	1,061.25
Merchandise	....	5,882.08	....	....	....
Miscellaneous	469.66	26,123.35	172.78	139.00	255.85
Total earnings	42,912.80	1,143,718.36	14,423.41	32,786.86	9,694.36
Expenses					
Power purchased	29,928.76	690,059.92	8,499.25	16,488.37	5,689.31
Substation operation	....	15,861.26	....	....	....
Substation maintenance	87.75	12,812.46	....	....	....
Distribution system, operation and maintenance	2,499.62	18,318.54	525.67	1,675.60	968.59
Line transformer maintenance	167.63	1,891.74	....	74.18	....
Meter maintenance	104.44	12,727.88	....	197.12	....
Consumers' premises expenses	....	4,835.97	....	....	....
Street lighting, operation and maintenance	340.14	6,404.26	258.85	352.50	92.01
Promotion of business	....	4,550.36	....	....	....
Billing and collecting	696.35	22,349.74	425.07	1,795.00	385.42
General office, salaries and expenses	756.56	38,382.18	446.36	2,218.08	411.26
Undistributed expenses	258.29	17,797.32	27.59	649.18	45.77
Truck operation and maintenance	255.57	7,394.13	....	....	....
Interest	730.60	53,489.42	783.69	2,101.35	253.21
Sinking fund and principal payments on debentures	1,540.84	57,940.41	862.77	2,019.77	234.68
Depreciation	2,281.00	85,241.91	612.00	1,966.00	571.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	39,647.55	1,050,057.50	12,441.25	29,537.15	8,651.25
Net surplus	3,265.25	93,660.86	1,982.16	3,249.71	1,043.11
Net loss	....	....	....	....	....
Number of Consumers					
Domestic	700	16,965	314	1,045	171
Commercial light service	146	2,726	17	115	44
Power service	23	503	3	4	9
Total	869	20,194	334	1,164	224

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*11 months' operation. Seceded from Etobicoke Twp., 1st January, 1931. Population estimated.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Lynden	Markham	Merlin	Merritton	Milton	Milverton	Mimico	Mitchell
P.V.	931	P.V.	2,596	1,775	981	6,108	1,593
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,080.68	5,964.01	2,177.14	12,143.12	11,157.44	5,277.04	54,590.99	10,399.31
806.98	2,620.73	1,422.02	2,347.28	5,218.88	2,535.67	8,804.72	4,585.23
831.46	3,869.76	2,993.35	67,492.03	23,736.48	4,778.17	4,258.96	4,182.01
....	488.15	....	....	....	325.15	3,857.19	825.65
410.00	1,463.00	688.00	2,799.00	1,931.73	999.00	8,504.78	2,088.00
....	....	....	....	....	....	....	2,606.93
....	128.13	308.96	190.56	740.28	122.00	1,160.52	42.42
4,129.12	14,533.78	7,589.47	84,971.99	42,784.81	14,037.03	81,177.16	24,729.55
3,084.61	8,876.45	5,255.08	55,683.76	25,091.12	11,338.01	47,178,56	14,173.91
....	....	....	....	....	....	....	....
....	....	....	....	287.05	....	37.50	311.66
212.60	1,336.18	293.87	3,061.88	3,069.04	349.06	6,850.25	658.19
....	....	11.21	35.16	....	52.65	....	62.79
38.38	....	97.02	131.44	210.85	27.45	158.53	308.63
....	....	....	....	....	....	....	....
27.39	94.48	48.09	667.11	268.54	186.66	1,262.80	302.46
....	....	....	....	1,049.90	....	....	....
156.94	....	248.54	....	....	679.82	1,904.18	918.25
10.89	979.75	82.83	2,808.60	1,540.35	213.05	1,850.92	1,549.64
67.90	....	28.22	....	556.70	133.28	6,378.91	428.90
....	108.89	....	201.32	521.55	....	694.34	111.02
165.22	113.02	569.51	1,338.91	1,591.58	229.89	4,391.02	....
138.54	333.78	611.64	1,350.98	1,455.65	608.35	4,341.81	....
252.00	692.00	333.00	1,860.00	2,239.30	633.00	4,930.00	2,672.00
....	....	....	....	....	....	....	....
4,154.47	12,534.55	7,579.01	67,142.16	37,881.63	14,451.22	79,978.82	21,497.45
....	1,999.23	10.46	17,829.83	4,903.18	....	1,198.34	3,232.10
25.35	....	....	....	....	414.19	....	....
77	270	106	700	460	228	1,694	434
18	65	44	60	101	77	132	106
1	9	2	10	23	8	12	21
96	344	152	770	584	313	1,838	561

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality Population	Moorefield P.V.	Mount Brydges P.V.	Newbury 291	New Hamburg 1,409	New Toronto 6,310
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	785.16	2,657.36	1,183.08	10,106.52	33,141.89
Commercial light service	695.88	1,081.82	976.48	4,126.08	11,391.56
Commercial power service	1,335.09	933.94	735.25	3,724.04	104,352.50
Municipal power	....	....	....	....	10,580.86
Street lighting	375.00	506.00	719.89	2,105.92	8,429.04
Merchandise	....	....	....	569.51	....
Miscellaneous	61.66	191.97	10.98	5.52	1,500.00
Total earnings	3,252.79	5,371.09	3,625.68	20,637.59	169,395.85
EXPENSES					
Power purchased	2,974.59	3,255.60	2,086.19	14,630.67	141,999.74
Substation operation	....	....	....	224.14	....
Substation maintenace	....	....	....	....	....
Distribution system, operation and maintenance	12.55	95.58	28.67	409.27	8,276.71
Line transformer maintenance	....	....	....	158.40	163.82
Meter maintenance	....	3.65	....	675.68	625.58
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	23.69	37.25	41.21	451.03	2,065.45
Promotion of business	....	....	6.52	....	....
Billing and collecting	....	172.92	....	605.04	2,268.26
General office, salaries and expenses	147.00	102.05	210.79	1,049.18	4,231.52
Undistributed expenses	....	19.50	19.50	194.25	3,635.38
Truck operation and maintenance	....	....	....	295.28	....
Interest	124.50	154.14	355.33	478.99	226.52
Sinking fund and principal payments on debentures	259.91	137.21	500.00	718.84	275.99
Depreciation	171.00	259.00	265.00	1,257.00	4,676.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	3,713.24	4,236.90	3,513.21	21,147.77	168,444.97
Net surplus	....	1,134.19	112.47	....	950.88
Net loss	460.45	....	....	510.18	....
NUMBER OF CONSUMERS					
Domestic service	54	129	60	340	1395
Commercial light service	28	43	28	89	146
Power service	2	3	2	12	27
Total	84	175	90	441	1,568

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Niagara Falls 18,539	Niagara-on-the-Lake 1,633	North York Twp. 11,006	Norwich 1,101	Oil Springs 445	Otterville P.V.	Palmerston 1,758	Paris 4,205
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
147,591.52	14,989.27	82,076.06	7,292.19	1,556.30	2,145.17	10,748.18	24,229.68
64,277.12	3,351.88	11,795.05	2,633.84	1,034.42	1,581.99	5,427.90	8,594.97
54,599.94	886.03	21,269.38	1,349.88	7,460.78	692.75	4,781.09	12,235.75
14,644.66	1,672.30	3,514.09	546.27	....	....	1,663.57	1,225.00
30,661.84	2,646.75	4,526.03	2,115.00	753.00	753.00	1,717.99	5,724.90
....	634.20	....	361.66	....	....	....	....
68.38	....	1,949.40	223.70	400.89	155.24	6.01	3,096.25
311,843.46	24,180.43	125,130.01	14,522.54	11,205.39	5,328.15	24,344.74	55,106.55
160,022.66	11,786.40	62,122.65	10,665.19	7,318.24	3,149.17	18,808.78	32,871.48
9,508.19	....	....	....	....	....	....	....
....	....	19.00	....	....	....	....	139.07
4,920.70	2,063.12	9,278.50	1,497.67	552.96	84.77	844.57	4,470.68
399.23	....	659.44	98.09	....	15.66	21.76	....
6,229.08	80.89	1,392.36	209.38	....	20.54	66.46	150.32
....	....	....	....	....	....	....	....
5,377.78	620.75	1,314.31	246.92	70.21	94.37	387.47	954.43
....	....	....	....	....	....	....	....
7,548.46	....	4,465.68	366.70	306.60	228.17	733.45	1,411.56
9,635.69	1,641.43	3,779.30	337.98	272.21	62.66	780.66	1,082.67
5,664.00	....	3,993.48	255.34	110.79	21.00	156.39	349.58
2,218.30	327.01	3,026.32	190.84	....	....	124.98	295.64
22,561.40	1,322.09	17,913.68	385.81	488.50	102.94	403.59	1,879.42
21,936.68	850.39	12,430.43	512.78	1,004.09	293.16	813.99	1,554.05
22,318.00	1,328.00	9,480.00	758.00	626.00	343.00	1,206.00	4,704.00
....	....	....	....	....	....	....	....
278,340.17	20,020.08	129,875.15	15,524.70	10,749.60	4,415.44	24,348.10	49,862.90
33,503.29	4,160.35	....	....	455.79	912.71	....	5,243.65
....	....	4,745.14	1,002.16	....	....	3.36	....
4,361	467	2,539	352	70	105	400	1,059
899	72	208	77	28	42	97	179
89	10	36	7	27	3	9	22
5,349	549	2,783	436	125	150	506	1,260

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Parkhill 968	Petrolia 2,532	Plattsville P.V.	Point Edward 1,232	Port Colborne 6,202
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,971.66	11,084.19	2,415.17	5,985.38	30,210.67
Commercial light service	2,862.53	6,709.64	897.70	1,751.49	14,089.73
Commercial power service	984.27	20,347.43	801.85	17,221.19	8,637.02
Municipal power	551.17				7,015.60
Street lighting	1,437.00	2,652.00	544.00	1,489.25	7,790.96
Merchandise		173.81			
Miscellaneous	18.34	717.46		631.61	614.25
Total earnings	10,824.97	41,684.53	4,658.72	27,078.92	68,358.23
EXPENSES					
Power purchased	7,932.59	27,219.39	2,891.99	19,102.69	39,072.41
Substation operation					
Substation maintenace		47.50			
Distribution system, operation and maintenance	137.46	2,930.89	60.31	189.32	1,703.06
Line transformer maintenace		43.10		40.55	560.51
Meter maintenance		71.29	18.25	157.55	1,089.78
Consumers' premises expenses					
Street lighting, operation and maintenance	207.63	112.60	23.81	41.81	2,288.91
Promotion of business					863.30
Billing and collecting	281.58	757.82	165.55	7.18	1,494.64
General office, salaries and expenses	270.08	3,578.23	5.13	1,553.69	2,655.94
Undistributed expenses	20.01	717.01	19.50	555.45	464.90
Truck operation and maintenance		347.57			1,174.65
Interest	518.82	1,715.32	170.31	641.56	6,225.49
Sinking fund and principal payments on debentures	894.42	2,000.63	172.04	841.66	6,077.83
Depreciation	631.00	2,554.00	223.00	942.00	3,643.00
Other reserves					
Total operating costs and fixed charges	10,893.59	42,095.35	3,749.89	24,073.46	67,314.42
Net surplus			908.83	3,005.46	1,043.81
Net loss	68.62	410.82			
NUMBER OF CONSUMERS					
Domestic service	231	643	91	298	1,223
Commercial light service	75	174	24	45	252
Power service	5	53	1	12	21
Total	311	870	116	355	1,496

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Port Credit 1,600	Port Dalhousie 1,555	Port Dover 1,625	Port Rowan 558	Port Stanley 693	Preston 6,171	Princeton P.V.	Queenston P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
12,320.51	13,107.77	7,408.24	2,895.98	11,425.91	47,682.46	2,260.98	2,663.79
5,051.02	2,099.69	4,805.31	1,989.93	3,497.21	19,104.14	629.46	236.68
701.75	4,219.28	5,398.07	132.97	3,716.74	40,494.20	3,100.61	813.42
1,045.39	....	....	....	430.18	1,013.25	....	....
3,552.00	1,630.00	2,952.60	1,242.00	1,925.00	5,010.31	364.00	549.59
....	....	....	....	....	....	....	....
47.10	173.86	....	....	247.85	244.79	....	32.97
22,717.77	21,230.60	20,564.22	6,260.88	21,242.89	113,549.15	6,355.05	4,296.45
15,546.94	13,812.56	11,553.65	4,340.87	12,761.19	82,800.93	4,936.35	2,384.80
....	....	....	....	....	4,304.76	....	....
....	....	....	....	....	....	....	....
996.80	1,642.33	428.59	52.00	2,438.44	3,983.56	49.86	133.62
....	19.20	113.00	....	166.11	115.69	....	....
86.15	87.51	135.50	....	18.29	1,488.67	11.95	....
....	....	....	....	....	....	....	....
297.14	94.72	535.49	43.49	107.59	519.94	26.20	74.26
....	....	.46	....	....	....	....	....
1,023.20	....	380.38	379.00	690.91	1,711.58	139.36	....
553.63	1,502.69	51.79	19.10	478.50	1,332.94	5.51	338.32
73.02	....	74.27	62.05	158.42	1,084.52	20.00	....
....	278.93	17.58	....	178.84	691.02	....	....
497.57	762.43	1,015.08	1,134.14	487.87	3,436.66	117.52	429.62
471.76	1,170.52	1,868.20	356.15	744.95	5,518.51	116.63	415.08
1,321.00	855.00	1,149.00	307.00	1,100.00	7,587.00	218.00	282.00
....	....	....	....	....	....	....	....
20,867.21	20,225.89	17,322.99	6,693.80	19,331.11	114,575.78	5,641.38	4,057.70
1,850.56	1,004.71	3,241.23	....	1,911.78	....	713.67	238.75
....	....	....	432.92	....	1,026.63	....	....
370	580	458	85	575	1,538	84	68
75	46	128	34	80	232	17	7
5	11	11	1	13	49	3	1
450	637	597	120	668	1,819	104	76

STATEMENT

Detailed Operating Reports of Electrical Department of

NIAGARA
SYSTEM—Continued

Municipality	Richmond Hill	Ridgetown	Riverside	Rockwood	Rodney
Population	1,197	1,981	5,125	P.V.	690
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,968.21	9,562.03	40,470.28	3,134.96	3,140.19
Commercial light service	3,495.22	5,211.84	5,529.95	1,322.63	2,739.18
Commercial power service	2,263.23	4,520.89	6,709.46	335.21	1,669.73
Municipal power	400.38	856.49	2,950.79	....	....
Street lighting	1,389.00	3,577.66	4,728.96	747.00	1,006.19
Merchandise	....	66.14	....	....	....
Miscellaneous	35.14	516.33	....	....	264.65
Total earnings	14,551.18	24,311.38	60,389.44	5,539.80	8,819.94
EXPENSES					
Power purchased	9,057.14	14,650.76	37,388.08	3,942.37	5,762.15
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,797.32	830.90	2,365.77	133.71	217.03
Line transformer maintenance	....	43.31	606.15	....	82.39
Meter maintenance	168.91	79.69	1,926.05	75.76	21.22
Consumers' premises expenses	....	....	566.72	....	....
Street lighting, operation and maintenance	105.83	326.03	1,426.66	47.21	117.53
Promotion of business	....	....	135.34	7.01	....
Billing and collecting	....	634.88	3,997.97	....	413.02
General office, salaries and expenses	909.17	1,457.96	1,923.48	470.05	81.74
Undistributed Expenses	....	335.05	2,069.26	....	24.46
Truck operation and maintenance	....	....	....	....	....
Interest	323.53	470.14	3,620.46	149.41	342.34
Sinking fund and principal payments on debentures	611.23	318.32	3,348.30	....	248.30
Depreciation	489.00	1,255.00	3,561.00	396.00	460.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	13,462.13	20,402.04	62,935.24	5,221.52	7,770.18
Net surplus	1,089.05	3,909.34	....	318.28	1,049.76
Net loss	....	....	2,545.80	....	....
NUMBER OF CONSUMERS					
Domestic service	332	547	1,093	145	195
Commercial light service	63	135	61	33	75
Power service	12	22	8	1	5
Total	407	704	1,162	179	275

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

St. Catharines 25,347	St. Clair Beach 115	St. George P.V.	St. Jacobs P.V.	St. Marys 4,073	St. Thomas 16,869	Sandwich 11,819	Sarnia 17,003
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
142,788.23	2,325.44	2,733.14	3,221.42	28,076.43	102,173.05	91,273.04	101,605.37
46,912.45	1,388.82	783.10	1,241.10	9,124.12	46,693.72	21,573.58	49,307.01
84,479.14	518.72	2,031.86	1,743.45	15,963.22	47,106.38	14,649.32	157,154.00
....	....	....	....	1,205.37	6,169.72	....	....
25,309.73	....	304.00	460.00	3,504.00	14,506.63	10,555.22	18,814.65
225.59	....	....	....	441.40	....	553.03	....
5,405.80	....	121.93	172.10	46.41	2,735.67	2,172.99	1,179.66
305,120.94	4,232.98	5,974.03	6,838.07	58,360.95	219,385.17	140,777.18	328,060.69
181,658.40	2,907.35	5,197.86	5,823.74	42,587.27	142,580.10	102,414.75	207,652.37
5,722.90	....	....	....	1,363.30	6,455.35	....	5,133.50
....	....	....	....	101.57	724.13	29.68	305.68
14,635.30	539.41	33.35	25.92	901.90	7,113.51	2,390.78	7,596.01
2,594.10	48.71	15.90	....	166.33	1,029.31	343.48	1,208.39
3,455.08	78.12	54.40	22.68	663.29	1,621.57	1,476.81	2,568.63
....	66.85	....	....	....	1,841.39	....	....
3,156.41	....	86.80	47.05	856.20	1,516.52	2,426.64	3,899.74
976.00	15.00	....	....	....	130.78	610.62	1,206.16
10,557.87	210.27	562.48	....	1,297.13	3,976.15	5,958.52	5,976.93
12,053.74	4.00	53.09	419.46	1,565.64	11,515.92	6,501.82	10,427.36
6,890.31	175.24	45.52	20.00	341.68	7,127.81	2,489.89	6,781.35
5,449.51	....	....	....	562.73	2,210.57	1,631.25	4,042.20
13,177.41	247.16	218.74	156.91	1,992.76	2,141.41	6,994.66	10,913.75
10,522.01	291.49	194.09	345.18	1,671.97	4,782.75	5,762.09	18,215.31
16,082.00	294.00	303.00	317.00	3,927.00	11,987.00	5,418.00	16,319.00
....	....	....	....	....	70.06	....	....
286,931.04	4,877.60	6,765.23	7,177.94	57,998.77	206,824.33	144,448.99	302,246.38
18,189.90	....	....	....	362.18	12,560.84	....	25,814.31
....	644.62	791.20	339.87	....	....	3,671.81	....
6,170	49	130	107	1,021	4,157	2,803	4,574
677	10	30	25	192	664	237	664
145	2	3	6	35	102	37	89
6,992	61	163	138	1,248	4,923	3,077	5,327

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Scarboro' Twp.	Seaforth	Simcoe	Springfield	Stamford Twp.
Population	18,212	1,689	5,044	404	7,128
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	85,255.70	10,262.81	17,431.74	1,770.18	52,154.47
Commercial light service	18,389.04	5,599.77	23,580.07	750.55	7,229.50
Commercial power service	12,444.85	4,775.79	24,873.09	1,977.26	2,663.45
Municipal power	11,150.28	753.71	2,339.27	....	3,095.54
Street lighting	17,148.75	1,788.00	3,940.29	550.00	8,270.21
Merchandise	....	374.16	199.16	....	434.89
Miscellaneous	384.29	688.99	....	210.90	....
Total earnings	144,772.91	24,243.23	72,363.62	5,258.89	73,848.06
EXPENSES					
Power purchased	75,345.75	15,732.99	40,788.17	3,502.68	34,881.98
Substation operation	113.69	....	....	....	557.70
Substation maintenance	....	....	219.71		
Distribution system, operation and maintenance	4,852.61	1,550.26	4,207.34	229.91	3,855.60
Line transformer maintenance	852.67	48.37	158.26	....	....
Meter maintenance	1,488.68	190.34	1,428.71	....	250.30
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	2,010.38	268.56	479.74	65.35	885.96
Promotion of business	....	....	....	....	....
Billing and collecting	4,668.33	709.32	1,600.80	302.60	4,156.84
General office, salaries and expenses	6,047.28	1,009.05	1,386.05	76.86	4,055.11
Undistributed expenses	2,182.53	161.56	774.78	42.31	2,370.79
Truck operation and maintenance	2,358.61	38.98	317.00	....	2,132.62
Interest	12,754.98	1,272.90	2,875.21	225.41	8,957.37
Sinking fund and principal payments on debentures	11,950.02	445.70	2,316.77	151.63	9,490.32
Depreciation	9,710.00	1,638.00	2,975.00	309.00	5,540.00
Other reserves	....	106.96	....	....	....
Total operating costs and fixed charges	134,335.53	23,172.99	59,527.54	4,905.75	77,134.59
Net surplus	10,437.38	1,070.24	12,836.08	353.14	....
Net loss	....	....	....	....	3,286.53
NUMBER OF CONSUMERS					
Domestic service	4,210	478	997	93	1,633
Commercial light service	334	113	296	34	115
Power service	36	14	41	4	12
Total	4,580	605	1,334	131	1,760

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Stouffville 1,070	Stratford 18,909	Strathroy 2,755	Sutton 831	Tavistock 959	Tecumseh 2,560	Thamesford P.V.	Thamesville 884
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,751.53	150,432.56	20,288.12	7,837.57	7,101.24	15,522.45	2,369.93	4,066.23
2,601.24	52,609.35	11,071.97	3,235.45	2,123.46	3,713.63	1,430.28	3,455.08
1,160.04	50,572.64	7,946.41	1,368.98	7,918.67	3,988.76	2,897.36	1,577.22
....	10,670.74	1,503.17	....	453.23	....	....	240.75
1,705.66	16,517.32	4,338.96	1,891.34	1,189.50	1,089.00	517.00	1,186.50
....	2,784.92	466.42	....	....	....	....	....
350.57	5,947.59	965.39	....	306.11	....	339.54	289.73
12,569.04	289,535.12	46,580.44	14,333.34	19,092.21	24,313.84	7,554.11	10,815.51
7,198.89	199,820.66	28,566.03	8,944.97	15,623.69	14,186.70	5,789.43	6,547.15
....	4,732.69	227.80	....	....	....	....	....
....	1,013.87	100.33	....	....	....	....	....
764.63	5,674.72	1,966.20	457.39	616.42	957.84	185.07	460.10
....	316.26	2.93	....	65.67	168.27	23.60	....
....	3,611.17	252.68	....	250.22	1,043.98	52.31	....
....	....	....	....	....	213.56	....	....
176.15	3,159.15	561.42	148.18	238.00	350.62	32.28	250.97
....	....	....	....	....	35.47	....	....
....	5,920.48	1,098.81	....	513.01	1,692.42	200.00	285.13
452.58	8,906.58	2,311.49	563.62	121.95	607.26	26.75	440.00
....	3,272.26	460.16	....	31.63	850.97	27.41	27.37
....	1,625.25	145.40	....	....	....	....	....
582.04	21,775.00	1,083.91	1,110.21	211.51	1,462.01	116.09	319.17
1,359.19	10,022.36	1,792.82	1,209.86	178.80	1,160.07	185.80	510.78
483.00	18,500.00	2,873.00	738.00	711.00	1,354.00	409.00	675.00
....	372.77	....	....	....	....	....	....
11,015.48	288,723.22	41,442.98	13,172.23	18,561.90	24,083.17	7,047.74	9,515.67
1,553.56	811.90	5,137.46	1,161.11	530.31	230.67	506.37	1,299.84
....	....	....	....	....	....	....	....
316	4,321	803	374	258	481	117	214
81	638	180	77	76	50	39	76
5	144	26	5	5	6	8	8
402	5,103	1,009	456	339	537	164	298

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Thedford	Thorndale	Thorold	Tilbury	Tillsonburg
Population	539	P.V.	5,000	1,905	3,189
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,732.81	1,601.92	19,385.93	6,444.53	13,870.07
Commercial light service	1,726.77	1,137.08	6,705.36	6,327.54	12,552.78
Commercial power service	445.52	233.64	28,949.82	8,791.33	10,148.30
Municipal power			3,455.31	402.42	904.49
Street lighting	1,035.00	372.00	3,551.00	1,565.55	2,872.00
Merchandise					1.38
Miscellaneous	277.50		267.07	537.30	1,184.34
Total earnings	6,217.60	3,344.64	62,314.49	24,068.67	41,533.36
EXPENSES					
Power purchased	4,124.65	3,030.33	46,531.90	16,546.92	25,986.62
Substation operation					1,106.52
Substation maintenance			2,218.46		
Distribution system, operation and maintenance	178.35	112.63	3,823.83	1,969.54	1,940.03
Line transformer maintenance			9.96	16.78	38.56
Meter maintenance		10.78	151.10	58.19	440.15
Consumers' premises expenses					
Street lighting, operation and maintenance	59.88	40.86	410.81	117.02	441.46
Promotion of business					
Billing and collecting	140.95	101.18	888.48	345.84	733.46
General office, salaries and expenses	100.89	4.42	669.65	516.96	3,449.03
Undistributed expenses	26.29	21.50	591.12	268.88	654.63
Truck operation and maintenance			347.00		485.25
Interest	682.09	84.91	74.73	508.05	702.57
Sinking fund and principal payments on debentures	757.81	78.97	604.61	567.17	1,404.26
Depreciation	335.00	212.00	2,571.00	1,008.00	2,875.00
Other reserves					36.57
Total operating costs and fixed charges	6,405.91	3,697.58	58,892.65	21,923.35	40,294.11
Net surplus			3,421.84	2,145.32	1,239.25
Net loss	188.31	352.94			
NUMBER OF CONSUMERS					
Domestic service	130	62	1,181	430	843
Commercial light service	38	25	182	136	228
Power service	2	1	13	14	30
Total	170	88	1,376	580	1,101

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Toronto 606,370	Toronto Twp. 8,100	Trafalgar Twp. Zone No. 1 3,694	Trafalgar Twp., Zone No. 2	Walkerville 11,219	Wallaceburg 4,268	Wardsville 209	Waterdown 917
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,555,074.49	53,851.71	14,088.59	4,187.75	105,476.65	17,432.67	1,040.25	6,268.64
3,034,453.46	13,933.95	609.71	1,505.51	34,075.65	10,097.45	1,173.74	1,446.86
3,467,114.46	5,288.48	649.04	....	157,371.30	37,811.78	289.82	2,272.72
1,440,772.68	....	....	....	....	1,451.41	....	371.47
520,325.71	4,951.26	....	....	15,543.48	4,319.01	700.00	930.00
....	....	....	....	305.98	....	....	....
272,491.27	873.87	126.10	14.99	12,416.61	994.43	34.73	52.81
12,290,232.07	78,899.27	15,473.44	5,708.25	325,189.67	72,106.75	3,238.54	11,342.50
6,215,251.58	43,218.05	7,153.60	2,460.39	217,721.31	55,167.37	1,799.35	7,595.21
239,299.72	....	....	....	7,264.19	238.26	....	....
237,170.79	....	....	....	1,791.64	....	....	....
418,109.90	3,625.41	2,412.81	424.60	3,579.03	2,536.65	160.80	290.78
38,821.22	302.09	....	....	956.27	483.23	....	....
116,117.96	350.37	80.83	....	3,368.79	954.21	....	28.32
312,503.27	....	....	....	3,440.26	....	....	....
140,239.02	547.04	....	....	2,805.14	465.31	74.75	137.72
200,728.20	....	....	....	557.68	501.43	....	....
355,368.93	3,285.81	....	....	7,360.40	2,356.62	....	659.72
348,681.38	4,749.22	1,308.88	519.11	12,688.81	2,879.46	183.79	594.98
*185,158.39	553.11	82.56	22.15	9,230.95	1,269.81	....	58.96
....	1,449.11	368.45	....	1,118.82	1,096.40	....	....
1,373,841.49	4,403.62	839.21	520.36	11,122.41	3,021.32	357.85	48.37
1,118,073.25	4,575.94	834.39	....	13,726.81	2,456.32	367.42	473.22
757,146.89	7,406.00	1,012.00	238.00	15,152.00	4,476.00	214.00	765.00
....	....	....	....	....	....	....	....
12,056,511.99	74,465 77	14,092.73	4,184.61	311,884.51	77,902.39	3,157.96	10,652.28
233,720.08	4,433.50	1,380.71	1,523.64	13,305.16	....	80.58	690.22
....	....	....	....	....	5,795.64	....	....
148,879	1,732	271	110	2,468	1,003	52	220
25,126	178	2	19	341	217	25	32
4,266	22	10	....	102	28	1	7
178,271	1,932	283	129	2,911	1,248	78	259

*Includes $81,500.00 York Twp. Debenture Charges and Reserve for Profit.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—**Continued**

Municipality	Waterford	Waterloo	Watford	Welland	Wellesley
Population	1,091	8,389	977	10,141	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,162.68	57,887.66	6,428.39	51,553.49	2,818.32
Commercial light service	1,817.95	21,688.02	3,503.88	31,672.11	893.00
Commercial power service	3,652.02	28,477.71	2,279.71	59,549.52	1,693.99
Municipal power	241.41	3,417.41	382.02	2,499.25	....
Street lighting	1,608.00	7,387.05	1,332.48	11,176.09	720.00
Merchandise	....	649.60	....	2,235.57	....
Miscellaneous	369.66	44.29	156.56	6,477.47	83.58
Total earnings	14,851.72	119,551.74	14,083.04	165,163.50	6,208.89
EXPENSES					
Power purchased	11,395.17	79,703.15	9,204.50	82,030.69	4,837.85
Substation operation	....	2,425.26	....	5,217.94	....
Substation maintenance	....	396.48	....	218.76	....
Distribution system, operation and maintenace	444.43	5,701.68	843.53	6,326.63	461.37
Line transformer maintenance	....	267.02	....	346.66	....
Meter maintenance	....	454.08	....	3,002.77	....
Consumers' premises expenses	....	....	....	82.57	....
Street lighting, operation and maintenance	181.67	984.02	58.56	1,118.90	91.12
Promotion of business	....	....	....	....	....
Billing and collecting	559.00	2,314.20	527.10	4,047.87	....
General office, salaries and expenses	420.24	5,497.56	534.54	8,170.70	420.25
Undistributed expenses	78.08	707.14	71.42	1,951.34	20.55
Truck operation and maintenance	....	1,610.90	182.41	1,626.90	....
Interest	....	3,569.21	196.53	15,850.76	192.92
Sinking fund and principal payments on debentures	....	4,431.58	640.26	8,695.62	460.96
Depreciation	904.00	7,988.00	676.00	11,652.53	277.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	13,982.59	116,050.28	12,934.85	150,340.64	6,762.02
Net surplus	869.13	3,501.46	1,148.19	14,822.86	....
Net loss	....	....	....	....	553.13
NUMBER OF CONSUMERS					
Domestic service	316	1,836	275	2,223	126
Commercial light service	69	239	79	433	29
Power service	10	77	5	77	3
Total	395	2,152	359	2,733	158

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

West Lorne 741	Weston 4,606	Wheatley 748	Windsor 70,031	Wood-bridge 737	Wood-stock 10,898	Wyoming 473	*York Twp. 60,207
3,389.60	37,855.97	4,523.52	505,424.36	5,414.99	79,454.56	2,040.75	506,012.31
1,772.02	9,165.58	2,936.43	270,976.09	1,582.12	41,932.75	1,375.04	47,598.73
4,672.87	38,745.29	2,085.43	190,161.02	4,101.01	49,215.14	90.34	112,178.77
....	1,966.55	388.33	13,393.72	375.99	3,251.63	....	....
1,010.04	7,777.58	1,852.00	87,768.07	827.52	7,783.40	750.00	61,118.17
....	....	....	....	....	312.25	....	....
....	383.01	....	....	....	3,083.06	4.17	16,443.98
10,844.53	95,893.98	11,785.71	1,067,723.26	12,301.63	185,032.79	4,260.30	743,351.96
7,810.08	69,018.92	7,094.54	624,718.77	10,806.89	119,879.90	2,964.46	324,137.73
....	....	....	15,733.70	....	2,694.77	....	26,872.18
....	792.63	....	9,166.19	....	418.81	....	....
42.34	4,554.26	433.56	21,287.46	671.20	5,204.58	240.37	16,251.42
....	108.60	51.20	4,418.49	....	448.23	....	4,175.32
8.88	190.08	31.72	9,389.73	178.96	796.00	....	8,449.04
....	....	....	17,929.38	....	....	....	21,326.19
81.26	1,909.24	406.38	27,831.59	159.80	2,184.99	48.01	10,409.15
....	....	....	7,930.33	....	....	....	4,480.02
528.04	....	330.75	37,353.67	....	3,407.81	136.03	37,728.30
172.42	3,989.77	241.57	22,041.98	783.24	4,911.99	215.93	26,253.23
19.76	419.52	113.72	35,260.95	....	2,149.00	....	25,111.25
....	593.43	....	11,757.94	....	817.52	....	....
363.47	2,614.23	545.09	78,017.14	409.99	3,623.89	228.54	160,126.17
228.79	2,716.52	542.35	81,209.44	261.99	2,535.31	666.72	19,629.51
570.00	4,498.00	546.00	61,637.00	843.00	10,792.00	348.00	17,781.00
....	....	....	....	....	869.55	....	....
9,825.04	91,405.20	10,336.88	1,065,683.76	14,115.07	160,734.35	4,848.06	702,730.51
1,019.49	4,488.78	1,448.83	2,039.50	....	24,298.44	....	40,621.45
....	....	....	....	1,813.44	....	587.76	....
195	1,201	184	14,400	214	2,842	128	....
52	179	65	2,345	46	461	47	....
5	26	4	336	7	92	2	....
252	1,406	253	17,081	267	3,395	177	....

*For year ended December 31, 1930. Included in Toronto figures. Not added in Summary.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality	Zurich	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population	P.V.		1,364	954	7,166
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	3,131.39	9,490,449.93	8,894.37	4,612.80	45,271.66
Commercial light service	1,982.98	5,278,148.52	4,289.70	3,849.03	25,971.15
Commercial power service	....	7,794,708.66	1,788.40	1,478.94	14,034.09
Municipal power	....	1,795,089.74	1,333.00	....	922.23
Street lighting	693.00	1,450,930.28	2,058.00	1,782.00	5,145.00
Merchandise	....	22,411.30	....	....	120.77
Miscellaneous	119.50	443,262.82	288.14	....	1,036.70
Total earnings	5,926.87	26,275,001.25	18,651.61	11,722.77	92,501.60
EXPENSES					
Power purchased	5,202.61	14,965,415.05	11,283.41	8,880.36	83,116.41
Substation operation	....	438,839.22	....	....	....
Substation maintenance	....	293,078.85	....	....	156.79
Distribution system, operation and maintenance	326.23	827,978.18	1,529.13	626.67	5,703.37
Line transformer maintenance	....	86,902.83	....	....	492.69
Meter maintenance	....	241,634.62	....	....	219.55
Consumers' premises expenses	....	377,049.54	....	....	....
Street lighting, operation and maintenance	96.63	304,466.26	86.18	99.14	1,861.41
Promotion of business	....	242,341.81	....	....	....
Billing and collecting	....	704,098.34	....	....	2,254.81
General office, salaries and expenses	204.10	780,391.47	816.05	385.90	1,843.92
Undistributed expenses	....	432,815.31	....	....	1,225.28
Truck operation and maintenance	....	83,343.44	....	....	614.78
Interest	233.07	2,255,896.53	1,918.45	1,132.11	2,244.55
Sinking fund and principal payments on debentures	156.93	1,885,361.96	1,229.52	642.72	1,526.40
Depreciation	347.00	1,521,809.41	1,221.00	859.00	6,164.00
Other reserves	....	2,611.34	....	....	....
Total operating costs and fixed charges	6,566.57	25,444,034.16	18,083.74	12,625.90	107,423.96
Net surplus	....	830,967.09	567.87	....	....
Net loss	639.70	....	....	903.13	14,922.36
NUMBER OF CONSUMERS					
Domestic service	119	357,285	350	173	1,835
Commercial light service	46	57,461	102	85	345
Power service	....	9,825	15	4	44
Total	165	424,571	467	262	2,224

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Beaverton 988	Beeton 561	Bradford 933	Brechin P.V.	Cannington 849	Chatsworth 251	Chesley 1,702	Coldwater 563
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,218.07	3,866.35	5,315.32	1,125.37	4,853.42	1,308.17	8,335.36	2,662.98
2,356.39	2,513.06	3,528.25	1,030.59	2,299.22	1,452.21	4,314.44	1,533.38
2,114.29	3,596.77	3,008.10	1,073.54	843.86	336.09	9,123.04	4,389.57
....	....	350.60	....	....	....	727.32	....
1,031.01	1,185.00	1,206.00	576.00	956.16	451.00	1,596.00	571.00
....	6.94	....	....	....	....	28.84	....
215.83	29.14	287.45	....	219.63	75.98	663.17	331.01
14,935.59	11,197.26	13,695.72	3,805.50	9,172.29	3,623.45	24,788.17	9,487.94
10,960.79	8,640.70	8,991.33	2,837.48	6,605.70	2,256.97	17,754.11	8,576.99
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
1,084.45	193.76	612.08	326.58	608.65	40.88	794.81	568.51
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
186.16	68.16	140.02	137.03	61.56	15.86	142.93	48.50
....	....	....	....	....	....	....	....
....	....	....	....	....	....	366.31	360.56
787.35	452.97	844.84	113.06	567.02	335.70	731.63	44.08
....	....	....	....	11.01	....	....	....
....	....	....	....	....	....	142.66	....
440.97	584.47	1,265.33	234.86	546.51	290.92	604.49	241.53
544.98	405.45	742.57	88.54	545.01	207.25	1,732.48	240.13
1,118.00	536.00	810.00	128.00	590.00	234.00	1,125.00	492.00
....	....	....	....	....	....	....	....
15,122.70	10,881 51	13,406.17	3,865.55	9,535.46	3,381.58	23,394.42	10.572.30
....	315.75	289.55	....	....	241.87	1,393.75	....
187.11	....	....	60.05	363.17	....	....	1,084.36
423	121	203	42	236	68	421	133
63	37	62	30	71	26	104	56
10	6	8	4	10	1	21	4
496	164	273	76	317	95	546	193

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Collingwood 6,027	Cookstown P.V.	Creemore 598	Dundalk 659	Durham 1,744
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	26,487.67	2,191.26	2,266.16	2,533.73	5,703.53
Commercial light service	10,983.15	1,416.85	1,830.17	2,252.99	4,000.06
Commercial power service	19,675.55	363.59	1,315.99	2,031.53	10,272.32
Municipal power	1,271.88				341.12
Street lighting	3,369.65	952.00	590.16	900.00	1,802.60
Merchandise	235.38				
Miscellaneous	1,484.69	49.16	208.70	229.05	993.40
Total earnings	63,507.97	4,972.86	6,211.18	7,947.30	23,113.03
EXPENSES					
Power purchased	55,326.29	2,781.41	5,513.55	6,497.51	18,293.04
Substation operation	42.51				
Substation maintenance	6.50				
Distribution system, operation and maintenance	1,961.21	70.00	291.47	862.42	605.72
Line transformer maintenance	25.44				
Meter maintenance	1,041.93				
Consumers' premises expenses					
Street lighting, operation and maintenance	185.21	59.61	66.58	105.52	113.82
Promotion of business					
Billing and collecting	2,858.68				
General office, salaries and expenses	2,334.65	378.09	227.29	604.71	1,941.43
Undistributed expenses	847.17				434.84
Truck operation and maintenance	298.19				213.45
Interest	207.07	540.04	153.54	98.20	477.36
Sinking fund and principal payments on debentures	2,382.14	733.09	448.87	320.15	2,154.03
Depreciation	1,350.00	456.00	370.00	399.00	1,039.00
Other reserves					
Total operating costs and fixed charges	68,866.99	5,018.24	7,071.30	8,887.51	25,272.69
Net surplus					
Net loss	5,359.02	45.38	860.12	940.21	2,159.66
NUMBER OF CONSUMERS					
Domestic service	1,403	100	158	161	402
Commercial light service	261	33	52	73	110
Power service	55	3	4	3	13
Total	1,719	136	214	237	525

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Elmvale	Elmwood	Flesherton	Grand Valley	Gravenhurst	Hanover	Holstein	Huntsville
P.V.	P.V.	448	590	1,822	2,920	P.V.	2,903
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,587.82	1,067.09	2,523.69	3,240.63	8,633.10	18,930.53	1,340.81	10,639.75
1,809.15	551.90	1,718.51	2,522.17	6,013.60	6,405.23	627.73	6,351.87
3,193.03	1,263.07	904.97	1,692.06	6,997.45	18,720.46	298.82	13,793.48
132.70	...	...	...	588.41	308.75	...	- 1,126.67
660.00	483.00	543.00	928.00	2,116.72	3,488.16	490.00	2,512.00
...	...	...	...	629.10	...	...	26.26
130.52	58.71	31.82	487.68	422.73	1,566.27	...	593.12
8,513.22	3,423.77	5,721.99	8,870.54	25,401.11	49,419.40	2,757.36	35,043.15
6,658.58	2,677.01	3,726.64	6,230.42	13,222.14	34,641.99	1,944.60	25,521.47
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
942.28	10.73	125.74	340.89	2,807.67	2,359.49	16.13	3,580.74
...	...	...	...	...	196.25	...	...
...	...	...	...	...	215.75	...	...
...	...	...	...	...	...	...	...
54.20	26.06	16.21	63.88	453.48	92.26	...	168.56
...	...	...	...	...	...	...	...
...	...	...	...	...	1,204.70	...	...
284.51	164.99	378.87	568.09	2,764.74	392.03	165.30	1,967.33
...	...	...	...	...	691.26	...	...
...	...	...	...	...	121.30		
207.54	233.13	414.10	282.95	1,062.84	2,977.65	172.41	319.90
253.56	402.74	239.12	676.08	2,349.33	4,701.50	192.08	1,633.11
552.00	218.00	305.78	500.00	1,480.00	3,054.00	104.00	985.00
...	...	...	...	...	...	...	...
8,952.67	3,732.66	5,206.46	8,662.31	24,140.20	50,648.18	2,594.52	34.176.11
...	...	515.53	208.23	1,260.91	...	162.84	867.04
439.45	308.89	...	...	...	1,228.78	...	...
143	56	131	147	439	703	55	542
56	18	44	53	96	121	19	129
10	1	2	2	13	18	1	10
209	75	177	202	548	842	75	681

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population	2,218	P.V.	1,115	812	2,708
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	13,526.92	803.01	7,036.08	3,650.03	12,194.00
Commercial light service	6.636.36	962.48	3,006.48	2,733.20	6,402.58
Commercial power service	6,327.41	429.92	3,214.50	692.48	4,017.32
Municipal power	1,519.59	....	105.95	302.59	738.90
Street lighting	3,977.08	460.93	1,693.00	686.70	3,425.16
Merchandise	....	....	....	....	....
Miscellaneous	99.79	....	150.80	227.50	840.33
Total earnings	32,087.15	2,656.34	15,206.81	8,292.50	27,618.29
EXPENSES					
Power purchased	21,165.15	1,600.65	11,455.67	5,600.82	17,222.97
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,698.72	225.86	295.36	229.59	1,216.86
Line transformer maintenance	....	....	....	....	79.15
Meter maintenance	....	....	....	....	87.52
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	243.56	32.89	91.12	96.68	91.00
Promotion of business	104.99	....	....	....	201.00
Billing and collecting	975.49	....	....	....	858.16
General office, salaries and expenses	652.81	45.13	908.55	544.49	2,165.07
Undistributed expenses	546.90	....	....	....	274.69
Truck operation and maintenance	230.89	....	....	....	110.99
Interest	2,333.41	284.87	800.78	378.55	2,070.89
Sinking fund and principal payments on debentures	2,827.61	292.09	861.16	272.78	711.75
Depreciation	1,838.00	190.00	670.00	572.00	1,225.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	32,617.53	2,671.49	15,082.64	7,694.91	26,315.05
Net surplus	....	....	124.17	597.59	1,303.24
Net loss	530.38	15.15	....	....	....
NUMBER OF CONSUMERS					
Domestic service	583	27	270	184	628
Commercial light service	122	18	86	76	132
Power service	18	1	6	9	16
Total	723	46	362	269	776

*9 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Midland 7,116	Mount Forest 1,888	Neustadt 460	Orangeville 2,772	Owen Sound 12,778	Paisley 716	Penetanguishene 3,767	Port Elgin* 1,203
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
34,816.42	7,142.33	2,239.29	12,913.59	57,906.42	3,708.92	9,570.03	5,451.01
13,938.03	5,415.29	1,273.77	9,004.49	35,286.99	2,681.92	3,940.42	3,219.82
52,790.95	3,714.46	105.38	7,010.54	37,685.78	1,325.23	9,818.88	2,446.92
2,996.21	1,239.15	....	1,496.65	....	....	1,752.72	668.22
6,190.85	2,358.00	975.00	3,442.36	10,939.75	1,408.00	1,920.00	1,424.64
....	....	....	39.77	46.45	....	....	....
2,116.88	546.96	....	25.00	1,039.20	139.22	216.36	208.34
112,849.34	20,416.19	4,593.44	33,932.40	142,904.59	9,263.29	27,218.41	13,418.95
96,475.73	15,270.49	3,358.14	23,624.61	113,335.98	6,383.14	23,123.44	6,132.08
2,146.62	....	....	....	3,992.55	....	656.14	....
302.07	....	....	....	....	....	6.89	....
4,343.02	1,602.33	51.90	1,399.08	5,443.44	168.38	1,898.31	614.58
206.78	....	....	....	421.62	....	140.15	3.20
991.36	....	....	260.93	1,516.82	....	74.28	290.92
....	....	....	....	....	....	....	....
1,232.72	241.99	17.25	305.71	3,442.21	135.28	197.46	129.64
873.81	....	....	....	....	....	....	....
2,460.73	....	....	994.75	4,939.44	....	924.95	590.78
2,230.45	1,048.05	323.92	79.50	5,920.87	459.84	682.95	68.66
1,880.61	....	....	132.63	2,723.11	....	232.28	30.00
322.54	....	....	....	869.89	....	127.19	....
2,861.77	761.88	923.01	750.04	1,038.57	674.52	1,071.42	1,666.99
5,556.11	1,238.72	889.51	2,119.89	671.74	667.51	1,798.30	1,058.50
8,739.00	1,207.00	543.00	1,711.00	6,488.00	463.00	2,605.00	619.00
....	....	....	....	....	....	....	....
130,623.32	21,370.46	6,106.73	31,378.14	150,804.24	8,951.67	33,538.76	11,204.35
....	....	....	2,554.26	....	311.62	....	2,214.60
17,773.98	954.27	1,513.29	....	7,899.65	....	6,320.35	....
1,540	446	97	650	3,092	175	560	355
237	141	28	158	574	51	102	83
64	12	2	27	124	4	27	9
1,841	599	127	835	3,790	230	689	447

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Port McNicoll 825	Port Perry 1,288	Priceville P.V.	Ripley 410	Rosseau* 230
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,903.37	6,623.52	661.15	2,859.52	957.07
Commercial light service	437.30	2,652.99	393.91	2,001.53	487.83
Commercial power service	...	3,511.37	...	...	...
Municipal power	...	396.36	...	...	...
Street lighting	506.00	1,387.00	560.00	1,310.00	413.33
Merchandise	...	...	...	...	...
Miscellaneous	1.04	640.63	.63	77.68	202.96
Total earnings	3,847.71	15,211.87	1,615.69	6,248.73	2,061.19
EXPENSES					
Power purchased	3,546.40	10,504.92	1,117.54	3,840.68	1,752.16
Substation operation	...	...	...	...	...
Substation maintenance	...	...	...	...	...
Distribution system, operation and maintenance	143.77	481.89	8.79	77.50	194.61
Line transformer maintenance	...	...	...	...	...
Meter maintenance	...	...	...	...	...
Consumers' Premises expenses	...	...	...	...	...
Street lighting, operation and maintenance	11.22	184.86	...	32.87	8.90
Promotion of business	...	...	...	...	...
Billing and collecting	...	...	...	...	...
General office, salaries and expenses	424.21	923.67	51.30	391.66	150.91
Undistributed expenses	...	...	...	...	...
Truck operation and maintenance	...	264.57	...	...	...
Interest	226.01	1,081.56	384.01	702.66	51.10
Sinking fund and principal payments on debentures	430.14	665.28	420.27	339.78	...
Depreciation	357.00	773.00	160.00	380.00	...
Other reserves	...	...	...	...	...
Total operating costs and fixed charges	5,138.75	14,879.75	2,141.91	5,765.15	2,157.68
Net surplus	...	332.12	...	483.58	...
Net loss	1,291.04	...	526.22	...	96.49
NUMBER OF CONSUMERS					
Domestic service	179	301	27	120	48
Commercial light service	24	102	8	44	21
Power service	...	13	...	...	...
Total	203	416	35	164	69

*4 2-3 months' operation. z10 months operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Shelburne 1,138	Southampton z 1,700	Stayner 949	Sunderland P.V.	Tara 455	Teeswater 835	Thornton P.V.	Tottenham 538
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,511.37	7,234.09	3,998.71	2,079.71	2,937.84	4,470.92	1,290.02	3,143.28
3,585.26	3,487.26	2,687.23	1,850.59	1,723.28	2,317.54	625.17	2,324.55
1,538.13	3,282.63	2,930.17	79.44	936.07	1,103.08	292.76	495.12
572.89	1,211.54	....	....	....	120.00	....	175.30
960.00	1,546.74	1,022.00	612.00	1,340.00	1,460.00	845.00	1,225.08
....	....	....	....	....	....	....	....
284.32	146.54	392.57	38.17	....	152.17	8.22	....
12,451.97	16,908.80	11,030.68	4,659.91	6,937.19	9,623.71	3,061.17	7,363.33
9,673.21	7,560.38	8,245.92	3,638.45	3,251.84	6,013.90	1,742.93	5,136.81
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
614.68	1,059.85	1,001.54	331.72	253.54	193.35	54.78	377.92
....	....	....	....	....	....	....	....
....	181.68	....	....	....	....	....	....
....	....	....	....	....	....	....	....
2.50	109.10	37.32	105.81	33.40	40.30	10.57	44.88
....	....	....	....	....	....	....	....
532.09	648.52	....	....	....	....	....	....
63.76	122.08	547.67	316.72	418.82	601.05	103.10	177.85
....	188.99	....	....	....	....	....	....
....	11.51	....	....	....	....	....	....
419.09	1,474.34	254.49	217.98	451.36	997.90	431.57	469.86
1,196.52	914.83	966.12	285.41	847.07	998.74	378.30	346.39
851.00	523.00	720.00	253.00	489.00	617.00	283.00	376.00
....	....	....	....	....	....	....	....
13,352.85	12,794.28	11,773.06	5,149.09	5,745.03	9,462.24	3,004.25	6,929.71
....	4,114.52	....	....	1,192.16	161.47	56.92	433.62
900.88	....	742.38	489.18	....	....	....	....
289	393	232	103	126	208	51	118
93	85	74	43	40	55	15	51
10	13	11	2	4	9	2	6
392	491	317	148	170	272	68	175

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Uxbridge 1,482	Victoria Harbor 950	Walkerton* 2,280	Waubaushene P.V.	Wiarton† 1,880
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	7,488.43	2,675.12	11,282.58	1,947.47	5,983.06
Commercial light service	3,482.29	876.96	6,620.66	503.16	4,222.20
Commercial power service	1,113.30	46.35	3,833.27	550.28	1,177.57
Municipal power		115.48	539.62	86.29	1,550.73
Street lighting	1,548.00	702.00	2,142.25	349.33	1,399.00
Merchandise			176.54		
Miscellaneous	400.00		279.47	21.50	
Total earnings	14,032.02	4,415.91	24,874.39	3,458.03	14,332.56
EXPENSES					
Power purchased	10,033.89	3,193.89	13,199.95	2,087.28	7,641.84
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	588.37	97.03	1,001.80	148.07	579.13
Line transformer maintenance			169.26		
Meter maintenance			241.48		
Consumers' premises expenses					
Street lighting, operation and maintenance	172.72	101.86	129.93	62.26	51.61
Promotion of business					
Billing and collecting			1,411.12		562.18
General office, salaries and expenses	906.88	349.50	763.35	396.48	83.77
Undistributed expenses			114.79		27.93
Truck operation and maintenance			226.54		45.19
Interest	859.90	127.73	3,010.79	78.55	1,426.34
Sinking fund and principal payments on debentures	866.56	416.17	1,746.51	228.02	846.79
Depreciation	610.00	358.00	1,066.00	232.00	451.04
Other reserves					
Total operating costs and fixed charges	14,038.32	4,644.18	23,081.52	3,232.66	11,715.82
Net surplus			1,792.87	225.37	2,616.74
Net loss	6.30	228.27			
NUMBER OF CONSUMERS					
Domestic service	341	157	524	123	353
Commercial light service	95	28	135	19	108
Power service	12	2	15	6	11
Total	448	187	674	148	472

*10 months' operation.

† 7 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

				EASTERN ONTARIO SYSTEM			
Windermere 124	Wingham 2,229	Woodville 403	GEORGIAN BAY SYSTEM SUMMARY	Alexandria 2,370	Apple Hill P.V.	Athens 614	Belleville 13,443
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,134.94	12,770.36	2,082.21	445,602.43	7,295.93	1,026.30	4,554.74	80,175.95
910.32	7,370.70	1,119.42	243,802.78	3,997.76	814.58	2,308.75	54,926.33
....	10,158.30	858.42	283,795.04	4,536.41	299.88	1,272.66	39,387.22
....	410.36	....	23,101.23	1,680.74	....	....	9,908.72
455.00	3,597.00	500.00	98,173.66	2,640.00	466.78	1,525.00	11,387.06
....	409.98	....	1,720.03	....	....	....	477.11
656.82	414.22	277.43	19,007.65	391.19	....	....	2,412.10
4,157.08	35,130.92	4,837.48	1,115,202.82	20,542.03	2,607.54	9,661.15	198,674.49
2,848.11	17,151.52	3,113.57	822,982.96	12,320 05	1,603.40	4,137.54	113,319.99
....	1,933.59	....	8,771.41	....	....	....	....
....	....	....	472.25	....	....	....	659.65
265.75	2,033.62	371.90	55,130.42	1,330.17	41.05	163.46	5,750.72
....	....	....	1,734.54	....	....	....	375.29
....	....	....	5,122.22	....	....	....	1,772.83
....	....	....	....	....	....	....	822.26
31.08	172.83	51.02	11,904.89	280.79	59.47	157.24	1,527.26
....	....	....	1,179.80	....	....	....	146.15
....	660.04	....	22,603.31	....	....	....	3,904.43
147.66	1,066.36	272.90	42,504.54	1,528.25	279.36	191.41	7,669.19
....	488.71	....	9,850.20	....	....	....	1,798.49
....	122.58	....	3,722.27	....	....	....	1,290.49
612.60	2,812.45	198.54	48,556.45	1,787.76	261.55	879.53	4,172.98
....	3,537.94	207.47	58,994.83	2,484.87	270.52	446.90	6,000.00
251.88	2,537.00	203.00	62,450.70	1,210.00	150.00	400.00	4,078.00
....	....	....	....	....	....	....	....
4,157.08	32,516.64	4,418.40	1,155,980.79	20,941.89	2,665.35	6,376.08	153,287.73
....	2,614.28	419.08	....	....	....	3,285.07	45,386.76
....	....	....	40,777.97	399.86	57.81	....	....
44	552	103	21,444	320	43	130	3,046
9	161	30	5,094	93	18	47	513
....	29	3	729	15	1	1	100
53	742	136	27,267	428	62	178	3,659

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Bloomfield	Brighton	Brockville	Cardinal	Carleton Place
Population	637	1,343	9,432	1,249	4,278
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,724.65	10,350.31	41,002.20	4,967.33	19,177.90
Commercial light service	849.08	4,869.22	24,841.17	1,808.04	8,851.99
Commercial power service	2,224.56	3,283.45	37,834.89	569.58	25,576.40
Municipal power	....	....	6,456.33	....	2,104.20
Street lighting	720.00	1,644.00	8,643.50	1,322.01	4,335.00
Merchandise	....	....	....	....	....
Miscellaneous	148.85	....	6,601.80	....	1,082.07
Total earnings	6,667.14	20,146.98	125,379.89	8,666.96	61,127.56
EXPENSES					
Power purchased	5,148.18	9,937.81	64,480.59	4,024.66	34,900.58
Substation operation	....	....	5,172.10	....	....
Substation maintenance	....	....	496.04	....	38.51
Distribution system, operation and maintenance	111.64	1,796.49	3,335.46	647.71	2,093.29
Line transformer maintenance	....	104.76	456.10	....	80.69
Meter maintenance	....	201.31	2,169.62	8.10	705.87
Consumers' premises expenses	....	55.00	....	....	....
Street lighting, operation and maintenance	47.33	129.88	1,153.99	205.74	610.24
Promotion of business	....	481.12	244.65	....	....
Billing and collecting	....	913.50	1,278.60	....	1,541.67
General office, salaries and expenses	300.32	1,730.64	5,707.51	524.50	3,309.74
Undistributed expenses	....	496.18	1,684.17	....	254.22
Truck operation and maintenance	....	151.99	692.44	....	666.67
Interest	500.78	1,163.68	4,405.68	768.80	2,863.34
Sinking fund and principal payments on debentures	359.40	776.26	8,953.84	453.64	2,144.61
Depreciation	442.00	497.00	7,170.00	258.00	1,765.00
Other reserves	....	....	2,000.00	....	....
Total operating costs and fixed charges	6,909.65	18,435.62	109,400.79	6,891.15	50,974.43
Net surplus	....	1,711.36	15,979.10	1,775.81	10,153.13
Net loss	242.51	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	152	405	2,452	253	929
Commercial light service	25	105	430	52	183
Power service	8	11	71	2	20
Total	185	521	2,953	307	1,132

*11 months' operation.
† 6 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Chesterville	Deseronto*	Finch	Hastings†	Havelock	Kemptville	Kingston
1,000	1,331	365	709	1,142	1,227	21,616
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,215.00	6,733.46	2,145.46	2,488.86	6,616.63	6,882.24	99,385.86
2,304.19	2,759.85	1,634.84	1,084.30	1,936.93	4,093.38	71,799.59
2,055.97	2,103.92	1,008.58	455.00	5,966.77	5,040.38	74,358.66
....	769.86	....	....	....	....	10,184.66
1,032.00	1,794.60	558.00	775.75	1,460.00	1,830.00	25,395.00
419.49	230.15	....	....	....	510.21	22.36
494.64	....	....	....	249.17	1,418.19	3,986.40
11,521.29	14,391.84	5,346.88	4,803.91	16,229.50	19,774.40	285,132.53
8,801.91	7,172.66	2,799.33	2,518.98	9,710.46	9,620.72	112,833.75
....	....	....	....	....	....	4,892.64
....	....	....	....	....	....	2,673.03
901.82	727.17	88.90	220.81	961.03	1,840.03	21,632.04
....	16.31	....	....	....	....	1,510.06
....	30.77	....	....	....	....	4,613.13
....	....	....	....	....	....	2,038.00
142.31	288.00	25.50	48.63	175.57	190.13	4,618.82
....	....	....	....	....	....	33.00
....	292.28	....	....	....	....	6,277.34
803.80	1,155.23	220.33	306.17	423.22	1,291.86	9,425.95
....	191.62	....	....	....	....	23,427.24
....	....	....	....	206.51	171.97	2,234.06
214.16	741.32	374.96	577.44	1,278.86	1,656.54	10,640.94
171.51	426.95	226.64	301.19	1,580.26	566.30	11,260.72
551.00	350.00	226.00	190.00	784.00	808.00	17,463.00
....	....	....	....	....	....	15,000.00
11,586.51	11,392.31	3,961.66	4,163.22	15,119.91	16,145.55	250,573.72
....	2,999.53	1,385.22	640.69	1,109.59	3,628.85	34,558.81
65.22	....	....	....	....	....	....
221	301	76	160	283	305	5,556
57	72	34	50	60	86	866
3	13	1	5	3	7	140
281	386	111	215	346	398	6,562

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Lakefield	Lanark	Lancaster	Lindsay	Madoc
Population	1,428	592	560	7,161	1,019
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,685.57	2,431.42	1,981.95	37,919.62	4,567.37
Commercial light service	4,568.63	1,283.96	2,072.54	22,234.74	3,397.84
Commercial power service	2,776.71	72.25	1,668.44	25,365.48	1,247.49
Municipal power	....	....	....	2,731.15	....
Street lighting	1,768.00	592.00	1,495.00	8,176.25	1,788.00
Merchandise	....	....	....	....	....
Miscellaneous	697.08	110.37	....	3,065.92	....
Total earnings	16,495.99	4,490.00	7,217.93	99,493.16	11,000.70
EXPENSES					
Power purchased	8,212.43	2,698.77	3,910.48	62,697.45	6,943.45
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,637.41	74.75	120.12	3,815.40	698.20
Line transformer maintenance	....	....	....	301.24	....
Meter maintenance	....	....	....	839.15	37.54
Consumers' premises expenses	....	....	....	476.61	....
Street lighting, operation and maintenance	114.15	35.00	69.40	1,051.27	160.44
Promotion of business	....	....	....	48.80	....
Billing and collecting	....	....	....	2,140.43	....
General office, salaries and expenses	680.49	295.35	327.23	6,510.51	726.97
Undistributed expenses	....	....	....	1,622.08	....
Truck operation and maintenance	....	....	....	682.79	....
Interest	1,797.20	284.98	579.06	5,789.10	84.71
Sinking fund and principal payments on debentures	728.04	413.37	632.90	4,334.51	405.88
Depreciation	987.00	228.00	255.00	3,097.00	319.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	14,156.72	4,030.22	5,894.19	93,406.34	9,376.19
Net surplus	2,339.27	459.78	1,323.74	6,086.82	1,624.51
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	303	133	78	1,840	257
Commercial light service	74	35	43	339	86
Power service	8	1	1	77	6
Total	385	169	122	2,256	349

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Marmora 1,013	Martintown P.V.	Maxville 742	Napanee 2,984	Norwood 756	Omemee 489	Oshawa 25,550
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,503.63	911.31	3,240.62	28,013.89	4,916.11	2,386.27	162,125.69
1,590.74	992.60	2,110.28	16,972.66	2,796.72	1,219.79	61,246.83
153.01	....	259.31	12,868.18	3,064.22	303.03	168,533.28
....	....	....	790.58	....	....	5,994.86
1,450.00	300.00	1,426.76	4,245.80	1,575.00	924.00	9,982.05
....	....	....	332.28	....	....	....
169.00	85.40	....	2,655.87	268.13	....	3,834.65
6,866.38	2,289 31	7,036.97	65,879.26	12,620.18	4,833.09	411,717.36
4,048.57	1,254.08	4,058.98	32,916.49	5,763.77	2,543.87	312,503.17
....	....	....	....	....	....	....
....	....	....	....	....	....	....
75.76	33.02	137.31	5,182.68	613.49	444.35	6,914.45
....	....	....	147.86	....	....	580.56
....	....	....	1,115.07	....	....	4,000.74
....	....	....	27.11	....	....	186.49
59.00	48.04	34.26	446.59	56.87	31.80	1,385.60
....	....	....	....	....	....	21.65
....	....	....	1,228.18	....	....	10,230.78
470.62	103.34	353.52	3,684.50	477.97	236.57	7,858.87
....	....	....	1,934.31	....	....	3,425.44
....	....	....	734.35	190.35	....	2,374.26
728.01	231.22	543.27	2,762.16	1,839.34	354.59	11,000.74
941.14	292.10	783.82	2,173.54	913.32	676.67	10,561.72
517.00	124.00	464.00	1,318.00	953.00	513.00	8,128.00
....	....	....	....	....	....	....
6,840.10	2,085.80	6,375.16	53,670.84	10,808.11	4,800.85	379,172.47
26.28	203.51	661.81	12,208.42	1,812.07	32.24	32,544.89
....	....	....	....	....	....	....
193	35	140	766	211	127	5,896
48	23	43	188	64	41	513
2	....	1	34	3	6	101
243	58	184	988	278	174	6,510

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Ottawa	Perth	Peterboro'	Picton	Port Hope
Population	125,496	3,762	22,487	3,146	4,415
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	368,906.39	22,183.45	113,554.75	21,192.31	28,814.79
Commercial light service	160,255.53	14,381.71	63,425.98	11,436.97	15,045.79
Commercial power service	68,008.48	12,521.81	86,095.62	7,058.90	25,555.08
Municipal power	30,944.01	2,048.86	6,582.90	2,071.95	2,027.80
Street lighting	71,652.27	2,112.80	19,376.04	4,359.04	4,602.00
Merchandise	....	1,681.18	....	1,091.66	....
Miscellaneous	....	1,079.12	4,713.50	1,155.60	1,073.89
Total earnings	699,766.68	56,008.93	293,748.79	48,366.43	77,119.35
EXPENSES					
Power purchased	326,916.17	28,705.16	177,856.22	35,828.65	44,193.99
Substation operation	20,332.57	360.00	6,480.62	....	....
Substation maintenance	84.60	....	700.80	....	....
Distribution system, operation and maintenance	27,537.23	1,818.24	9,083.86	2,769.35	2,290.47
Line transformer maintenance	1,946.59	204.48	549.58	66.00	58.21
Meter maintenance	8,741.50	85.58	5,682.40	44.94	1,114.97
Consumers' premises expenses	3,200.00	....	510.00	....	....
Street lighting, operation and maintenance	27,720.32	391.87	3,836.27	1,078.88	135.36
Promotion of business	10,568.90	....	....	....	....
Billing and collecting	42,142.69	1,353.27	6,686.73	1,093.36	1,627.18
General office, salaries and expenses	20,920.67	2,570.46	7,658.23	3,547.00	4,209.16
Undistributed expenses	38,439.61	759.31	5,786.58	340.66	1,208.38
Truck operation and maintenance	1,562.14	748.57	3,521.17	297.14	456.36
Interest	41,259.92	2,944.98	26,290.99	....	2,326.28
Sinking fund and principal payments on debentures	20,553.79	1,619.04	14,263.54	....	2,569.50
Depreciation	63,121.00	2,843.00	14,713.00	1,763.00	1,682.00
Other reserves	....	....	....	....	....
Total operating costs and fixed charges	655,137.70	44,403.96	283,619.99	46,828.98	61,871.86
Net surplus	44,628.98	11,604.97	10,128.80	1,537.45	15,247.49
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	12,178	808	5,197	966	1,220
Commercial light service	1,392	186	759	188	195
Power service	222	25	155	44	48
Total	13,792	1,091	6,111	1,198	1,463

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1931

Prescott 2,940	Richmond 367	Russell P.V.	Smiths Falls 7,452	Stirling 822	Tweed 1,206	Warkworth P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
16,143.53	1,647.50	2,682.04	40,716.75	5,822.08	6,675.53	2,089.84
9,074.16	1,568.52	1,442.38	15,712.64	3,940.64	5,231.09	1,520.25
4,097.24	....	558.52	24,360.33	2,303.95	4,426.86	....
1,559.68	....	....	2,276.91	423.06	158.12	....
3,425.00	552.00	1,012.00	7,696.83	968.04	1,840.00	649.50
....	....	....	....	177.59	200.15	....
188.51	....	....	2,070.40	398.94	......	143.84
34,488.12	3,768.02	5,694.94	92,833.86	14,034.28	18,531.75	4,403.43
23,110.14	1,915.77	3,185.81	43,856.17	7,808.01	9,884.26	2,915.93
1,162.00	....	....	1,404.02	180.00	....	....
....	....	....	700.18	....	....	....
2,339.56	85.10	134.76	4,309.82	1,071.45	704.98	186.31
....	....	....	63.21	....	6.27	....
80.63	....	....	1,009.29	24.66	239.37	....
....	....	....	....	....	....	....
578.50	16.90	170.81	834.90	220.61	303.55	38.44
....	....	....	22.51	....	....	....
1,012.13	....	....	3,251.84	550.00	794.62	....
2,296.06	178.85	241.07	3,854.41	990.63	1,233.26	185.35
244.61	....	....	1,237.13	....	530.88	....
....	....	....	749.38	143.98	....	....
30.55	378.75	451.86	5,955.38	14.41	904.31	595.21
333.64	198.51	374.83	11,107.74	....	589.96	197.37
2,456.00	172.00	258.00	5,230.00	935.00	397.00	194.00
....	....	....	....	....	....	....
33,643.82	2,945.88	4,817.14	83,585.98	11,938.75	15,588.46	4,312.61
844.30	822.14	877.80	9,247.88	2,095.53	2,943.29	90.82
....	....	....	....	....	....	....
653	45	106	1,692	270	238	100
167	25	35	269	84	81	42
21	....	1	45	11	11	....
841	70	142	2,006	365	330	142

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

Municipality Population	Wellington 900	Whitby 5,463	Williamsburg P.V.	Winchester 970	EASTERN ONTARIO SYSTEM SUMMARY
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,467.61	19,464.20	1,893.40	5,837.42	1,221,517.86
Commercial light service	1,903.99	9,948.09	865.49	3,127.61	628,248.15
Commercial power service	2,895.63	12,785.10	219.39	1,171.25	674,343.89
Municipal power	....	2,209.59	....	....	90,923.98
Street lighting	1,070.04	3,311.42	204.00	1,062.00	223,144.54
Merchandise	....	....	....	172.87	5,315.05
Miscellaneous	302.57	1,014.25	72.70	400.00	40,284.15
Total earnings	10,639.84	48,732.65	3,254.98	11,771.15	2,883,777.62
EXPENSES					
Power purchased	7,459.83	31,519.45	2,044.43	8,131.83	1,606,213.94
Substation operation	....	167.87	....	....	40,151.82
Substation maintenance	....	....	....	....	5,352.81
Distribution system, operation and maintenance	801.30	3,268.50	78.43	691.17	118,559.26
Line transformer maintenance	....	53.60	....	....	6,520.81
Meter maintenance	....	79.38	....	....	32,596.85
Consumers' premises expenses	....	....	....	....	7,315.47
Street lighting, operation and maintenance	246.60	1,038.24	46.71	153.26	49,964.54
Promotion of business	....	....	....	....	11,566.78
Billing and collecting	....	1,448.86	....	....	87,767.89
General office, salaries and expenses	673.17	1,413.97	224.72	779.91	107,570.34
Undistributed expenses	....	517.38	....	....	83,898.29
Truck operation and maintenance	....	236.81	....	....	17,201.43
Interest	836.82	2,444.10	41.21	417.38	143,174.85
Sinking fund and principal payments on debentures	564.27	3,160.01	181.55	342.04	115,336.41
Depreciation	683.00	2,602.00	126.00	568.00	150,988.00
Other reserves	....	....	....	....	17,000.00
Total operating costs and fixed charges	11,264.99	47,950.17	2,743.05	11,083.59	2,601,179.49
Net surplus	....	782.48	511.93	687.56	282,598.13
Net loss	625.15	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	281	810	55	270	49,572
Commercial light service	61	159	22	65	7,918
Power service	8	15	1	2	1,250
Total	350	984	78	337	58,740

"B"—Concluded

Hydro Municipalities for Year Ended December 31, 1931

THUNDER BAY SYSTEM

Fort William 24,635	Nipigon P.V.	Port Arthur 20,092	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.
210,171.46	2,238.32	108,984.41	321,394.19	11,478,964.41
69,718.74	1,814.49	56,341.94	127,875.17	6,278,074.62
40,273.96	....	775,282.19	815,556.15	9,568,403.74
21,011.97	....	36,991.62	58,003.59	1,967,118.54
18,697.29	576.00	16,451.64	35,724.93	1,807,973.41
....	....	....	....	29,446.38
....	....	25,029.16	25,029.16	527,583.78
359,873.42	4,628.81	1,019,080.96	1,383,583.19	31,657,564.88
246,513.43	1,774.63	766,404.23	1,014,692.29	18,409,304.24
6,248.19	....	20,345.71	26,593.90	514,356.35
1,051.15	....	3,581.05	4,632.20	303,536.11
11,295.72	399.61	18,144.37	29,839.70	1,031,507.56
661.12	....	1,819.26	2,480.38	97,638.56
8,700.88	55.30	4,973.05	13,729.23	293,082.92
39.65	....	....	39.65	384,404.66
7,033.78	9.30	5,149.87	12,192.95	378,528.64
....	....	5,347.66	5,347.66	260,436.05
6,019.75	....	10,223.00	16,242.75	830,712.29
9,220.89	520.01	9,722.82	19,463.72	949,930.07
7,294.03	....	12,146.52	19,440.55	546,004.35
1,966.70	....	1,685.09	3,651.79	107,918.93
19,688.05	409.75	20,494.86	40,592.66	2,488,220.49
12,241.58	385.62	9,027.90	21,655.10	2,081,348.30
10,685.00	402.00	27,165.24	38,252.24	1,773,500.35
....	....	....	....	19,611.34
348,659.92	3,956.22	916,230.63	1,268,846.77	30,470,041.21
11,213.50	672.59	102,850.33	114,736.42	1,187,523.67
....	....	....	....	....
5,494	125	4,163	9,782	438,083
890	39	717	1,646	72,119
98	....	93	191	11,995
6,482	164	4,973	11,619	522,197

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Acton	1,951	129	80 c.p. *s*	9.00	1,795.50	0.92
		61	100 watt *m*	9.00		
		1	150 watt *m*	12.00		
		3	300 watt *m*	20.00		
Agincourt	....	56	100 watt *m*	13.00	728.00	**
Ailsa Craig	516	1	200 watt *s*	18.00	578.00	1.12
		56	100 watt *m*	10.00		
Alexandria	2,370	95	100 watt *m*	17.00	2,640.00	1.11
		41	200 watt *m*	25.00		
Alliston	1,364	102	100 c.p. *s*	18.00	2,058.00	1.51
		13	100 watt *m*	18.00		
Alvinston	657	6	200 c.p. *s*	29.00	1,854.00	2.82
		84	100 watt *m*	20.00		
Amherstburg	3,083	81	100 c.p. *s*	12.00	2,001.04	††
		9	250 c.p. *s*	26.00		
		22	200 watt *m*	20.00		
		12	300 watt *m*	30.00		
Ancaster Twp.	....	25	100 watt *m*	11.50	819.50	**
		38	150 watt *m*	14.00		
Apple Hill	....	27	100 watt *m*	17.00	466.78	**
Arkona	383	48	100 watt *m*	20.00	960.00	2.51
Arthur	954	82	100 watt *m*	19.00	1,782.00	1.87
		7	200 watt *m*	32.00		
Athens	614	40	100 watt *m*	18.00	1,525.00	2.48
		23	200 watt *m*	35.00		
Aylmer	1,996	163	100 watt *m*	10.00	2,270.00	1.14
		24	300 watt *m*	25.00		
		1	1 traffic Lt. *m*	40.00		
Ayr	776	92	100 watt *m*	10.00	1,028.00	1.32
		3	500 watt *m*	36.00		
Baden	....	65	100 watt *m*	8.00	520.00	**
Barrie	7,166	461	100 watt *s*	8.00	5,145.00	0.72
		15	100 watt *m*	15.00		
		41	200 watt *m*	18.00		
		23	300 watt *m*	22.00		
Beachville	....	47	100 watt *m*	11.00	517 00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Beaverton.....	988	9	100 watt	*m*	6.00	1,031.01	1.04
		12	100 watt	*m*	6.00		
		95	100 watt	*m*	8.00		
		6	500 watt	*m*	30.00		
Beeton........	561	65	100 watt	*s*	15.00	1,185.00	2.11
		14	100 watt	*m*	15.00		
Belle River....	715	76	100 watt	*m*	11.00	827.75	1.16
Belleville......	13,443	532	100 c.p.	*s*	10.00	11,387.06	0.85
		22	250 c.p.	*s*	30.00		
		52	1,000 c.p.	*s*	54.00		
		102	300 watt	*m*	35.00		
Blenheim......	1,630	163	150 c.p.	*s*	12.00	2,414.67	††
		3	400 c.p.	*s*	28.00		
		12	600 c.p.	*s*	37.00		
Bloomfield.....	637	60	80 c.p.	*s*	12.00	720.00	1.13
Blyth.........	621	100	100 watt	*m*	13.00	1,300.00	2.09
Bolton........	609	51	100 watt	*m*	12.00	1,003.75	1.45
		23	200 watt	*m*	21.00		
Bothwell......	575	66	100 watt	*m*	11.00	1,293.00	2.25
		21	300 watt	*m*	27.00		
Bradford......	933	60	150 c.p.	*s*	18.00	1,206.00	1.29
		7	100 watt	*m*	18.00		
Brampton.....	5,137	643	100 watt	*m*	8.00	5,191.35	1.01
		2	500 watt	*m*	35.00		
Brantford.....	30,103	3,490	100 watt	*m*	7.50	33,996.43	††
		10	150 watt	*m*	8.50		
		12	200 watt	*m*	11.00		
		2	500 watt	*m*	45.00		
		20	750 watt	*m*	46.00		
		149	1,500 c.p.	*s*	45.00		
Brantford Twp.	....	364	100 watt	*m*	12.00	4,244.00	**
Brechin.......	Mara Twp.	2	100 watt	*m*	18.00	576.00	**
	Thorah "	4	100 watt	*m*	18.00		
		26	100 watt	*m*	18.00		
Bridgeport....	....	57	100 watt	*m*	10.00	570.00	**
Brigden.......	....	44	100 watt	*m*	14.00	1,162.63	**
		22	200 watt	*m*	25.00		
Brighton......	1,343	137	100 c.p.	*s*	12.00	1,644.00	1.22

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Brockville.....	9,432	586	100 c.p.	*s*	11.00	8,643.50	0.92
		15	1-Lt. stds.	*m*	17.00		
		35	3-Lt. stds.	*m*	21.00		
		49	5-Lt. stds.	*m*	24.00		
		6	300 watt	*m*	24.00		
Brussels.......	725	79	100 watt	*m*	12.00	1,272.00	1.75
		18	200 watt	*m*	18.00		
Burford.......	....	67	100 watt	*m*	12.00	804.00	**
Burgessville....	....	24	100 watt	*m*	13.00	312.00	**
Caledonia.....	1,456	157	100 watt	*m*	8.00	1,607.91	1.10
		7	100 watt	*m*	13.00		
		20	200 watt	*m*	13.00		
Campbellville..	....	19	100 watt	*m*	24.00	456.00	**
Cannington....	849	67	100 watt	*m*	13.00	956.16	1.13
		3	500 watt	*m*	32.00		
Cardinal......	1,249	18	100 watt	*m*	20.00	1,322.01	1.06
		36	200 watt	*m*	27.00		
Carleton Place.	4,278	84	60 watt	*m*	12.00	4,335.00	1.01
		101	200 watt	*m*	18.00		
		66	300 watt	*m*	23.00		
Cayuga.......	661	77	100 watt	*m*	20.00	1,539.96	2.33
Chatham......	16,441	712	150 c.p.	*s*	13.00	18,513.75	††
		32	250 c.p.	*s*	16.00		
		30	600 c.p.	*s*	31.00		
		134	1,000 c.p.	*s*	38.00		
		75	600 c.p.	*s*	30.00		
		36	150 c.p.	*s*	12.00		
		2	250 Fl. Lt. c.p.	*s*	24.00		
Chatsworth....	251	41	100 watt	*m*	11.00	451.00	1.80
Chesley.......	1,702	114	100 watt	*s*	14.00	1,596.00	0.94
Chesterville....	1,000	86	100 watt	*m*	12.00	1,032.00	1.03
Chippawa.....	1,222	91	100 watt	*m*	12.00	1,080.00	0.88
Clifford.......	496	61	100 watt	*m*	14.00	833.00	1.68
Clinton.......	1,911	159	150 c.p.	*s*	11.00	1,963.96	1.03
		11	100 watt	*m*	11.00		
		1	500 watt	*m*	55.00		
Coldwater.....	563	6	60 watt	*m*	9.00	571.00	1.01
		47	100 watt	*m*	11.00		
Collingwood...	6,027	422	150 c.p.	*s*	8.00	3,369.65	0.56

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Comber.......	....	43 12	100 watt *m* 200 watt *m*	12.00 18.00	732.00	**
Cookstown....	....	56	150 c.p. *s*	17.00	952.00	**
Cottam.......	....	30	100 watt *m*	15.00	445.00	**
Courtright.....	370	43	100 watt *m*	18.00	774.00	2.09
Creemore......	598	59	100 watt *m*	10.00	590.16	0.99
Dashwood.....	....	41	100 watt *m*	12.00	492.00	**
Delaware......	....	21	100 watt *m*	12.00	252.00	**
Deseronto.....	1,331	124	100 watt *m*	16.00	1,794.60	†
Dorchester....	....	59	100 watt *m*	11.00	640.56	**
Drayton......	559	75	100 watt *m*	10.00	750.00	1.34
Dresden.......	1,403	129 15	100 c.p. *s* 50 watt *m*	14.00 3.48	1,867.04	1.33
Drumbo.......	....	39 1	100 watt *m* 250 watt *m*	13.00 31.00	538.00	**
Dublin........	....	50	100 watt *m*	15.00	750.00	**
Dundalk......	659	58 20	100 watt *m* 200 watt *m*	10.00 16.00	900.00	1.37
Dundas.......	5,137	304 12 54	100 watt *m* 200 watt *m* 500 watt *m*	12.00 16.00 46.00	6,283.15	1.22
Dunnville.....	3,412	252 27	100 watt *m* 600 watt *m*	11.00 45.00	3,964.28	1.16
Durham.......	1,744	105 6	150 c.p. *s* 375 c.p. *s*	16.00 24.00	1,802.60	1.03
Dutton.......	801	106	100 watt *m*	9.00	946.50	1.18
East Windsor..	16,203	387 136 283	100 watt *m* 200 watt *m* 300 watt *m*	8.00 14.00 20.00	9,003.57	††
Elmira........	2,940	190 8 1	100 watt *m* 200 watt *m* 1,000 watt *m*	9.00 12.00 40.00	1,846.00	0.63
Elmvale.......	....	60	100 watt *m*	11.00	660.00	**
Elmwood......	....	23	150 watt *m*	21.00	483.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†11 months' operation.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Elora	1,306	93	100 watt *m*	16.00	1,678.32	1.29
		15	200 watt *m*	22.00		
Embro	443	54	100 watt *m*	13.00	702.00	1.58
Erieau	202	21	100 watt *m*	18.00	373.50	1.85
Essex	1,880	122	60 watt *m*	11.00	3,249.44	1.73
		28	100 watt *m*	11.00		
		4	200 watt *m*	22.00		
		61	300 watt *m*	26.00		
		1	500 watt *m*	30.00		
Etobicoke Twp.	....	951	100 watt *m*	13.00	12,672.81	**
		22	100 watt *m*	17.00		
Exeter	1,606	165	100 watt *m*	9.00	1,899.00	1.18
		23	200 watt *m*	18.00		
Fergus	2,465	131	100 watt *m*	16.00	2,629.68	1.07
		30	150 watt *m*	18.50		
Finch	365	31	100 watt *m*	18.00	558.00	1.53
Flesherton	448	54	100 watt *m*	10.00	543.00	1.21
		1	300 watt *s*	25.00		
Fonthill	833	70	100 watt *m*	15.00	1,050.00	1.26
Forest	1,405	123	100 watt *m*	11.00	2,321.00	1.65
		131	60 watt *m*	7.00		
			Station Platform.	51.00		
Fort William	24,635	212	1,000 c.p. *s*	45.00	18,697.29	0.76
		73	600 c.p. *s*	30.00		
		572	100 c.p. *s*	8.50		
		14	300 c.p. *s*	25.00		
		4	100 c.p. *s*	9.60		
		2	250 c.p. *s*	20.00		
		48	Arcs *m*	45.00		
Galt	13,752	934	100 c.p. *s*	9.00	22,502.00	1.64
		316	100 watt *m*	12.00		
		100	200 watt *m*	20.00		
		152	300 watt *m*	35.00		
		74	500 watt *m*	40.00		
Georgetown	1,997	171	100 watt *m*	11.00	2,099.81	‡
		1	300 watt *m*	19.00		
		16	100 watt *m*	13.00		
Glencoe	779	19	200 c.p. *s*	20.00	1,934.04	2.48
		111	100 watt *m*	14.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
‡Includes Glen Williams.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Goderich......	4,913	321	100 c.p. *s*	9.00	3,796.00	0.77
		4	100 c.p. *s*	9.00		
		2	100 c.p. *s*	9.00		
		16	3-Lt. stds. *m*	35.00		
		8	200 watt *m*	25.00		
		8	100 watt *m*	15.00		
Grand Valley..	590	12	200 watt *m*	24.00	928.00	1.57
		40	100 watt *m*	16.00		
Granton.......	....	37	100 watt *m*	10.00	370.00	**
Gravenhurst...	1,822	141	80 watt *s*	10.00	2,116.72	1.16
		7	100 watt *s*	11.00		
		24	100 watt *m*	10.00		
		16	300 watt *m*	35.00		
Guelph........	20,393	1,399	100 watt *m*	10.00	23,279.87	1.14
		39	200 watt *m*	12.50		
		9	500 watt *m*	25.00		
		138	500 watt } 220 *m*	34.00		
		34	750 watt } v. *m*	43.00		
		52	1,000 watt } *m*	46.50		
		1	Airport Beacon *m*	60.00		
		18	60 watt *m*	4.00		
Hagersville....	1,265	121	100 watt *m*	12.00	1,732.00	1.37
		14	300 watt *m*	20.00		
Hamilton......	144,529	8,417	100 watt *m*	7.50	106,112.74	0.73
		1,362	200 watt *m*	11.00		
		72	300 watt *m*	30.00		
		811	500 watt *m*	34.50		
		65	750 watt *m*	55.00		
		1	1,000 watt *m*	70.00		
Hanover......	2,920	91	100 c.p. *s*	27.00	3,488.16	1.19
		16	250 c.p. *s*	32.00		
		5	100 watt *m*	27.00		
		12	200 watt *m*	32.00		
Harriston.....	1,325	76	66 c.p. *s*	11.00	1,199.00	0.90
		4	100 watt *m*	11.00		
		29	200 watt *m*	11.00		
Harrow.......	830	71	200 watt *m*	16.50	877.93	1.06
Hastings......	709	60	100 watt *m*	29.00	775.75	†
Havelock......	1,142	60	100 c.p. *s*	16.00	1,460.00	1.28
		20	250 c.p. *s*	25.00		
Hensall.......	727	76	100 watt *m*	12.00	925.00	1.27

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†6 mos. operation.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Hespeler......	2,769	90	150 c.p. *s*	11.00	2,775.00	1.00
		41	250 c.p. *s*	16.00		
		12	400 c.p. *s*	30.00		
		54	150 watt *m*	10.00		
		7	300 watt *m*	35.00		
		3	400 watt *m*	20.00		
Highgate......	315	51	100 watt *m*	11.00	559.16	1.77
Holstein.......	....	14	100 watt *m*	35.00	490.00	**
Humberstone..	1,926	111	100 watt *m*	12.00	1,299.00	0.67
Huntsville.....	2,903	43	250 c.p. *s*	22.00	2,512.00	0.87
		32	150 c.p. *s*	18.00		
		20	100 c.p. *s*	14.00		
		60	75 watt *m*	10.00		
		11	50 watt *m*	10.00		
Ingersoll......	5,150	342	100 c.p. *s*	11.00	4,675.87	††
		2	600 c.p. *s*	28.00		
		2	1,000 c.p. *s*	25.00		
		26	1,000 c.p. *s*	35.00		
Jarvis.........	479	70	100 watt *m*	12.00	840.00	1.76
Kemptville....	1,227	90	100 watt *m*	20.00	1,830.00	1.49
		1	Floodlight *m*	30.00		
Kincardine....	2,218	140	150 c.p. *s*	20.00	3,977.08	1.79
		20	100 watt *m*	15.00		
		33	200 watt *m*	25.00		
		2	1,000 watt *m*	85.00		
Kingston......	21,616	234	600 c.p. *s*	54.70	25,395.00	1.17
		283	600 c.p. *s*	43.20		
		78	100 c.p. *s*	19.60		
Kingsville.....	2,200	113	250 c.p. *s*	18.00	4,071.04	††
		25	600 c.p. *s*	29.00		
		110	100 watt *m*	12.00		
Kirkfield......	....	23	100 watt *m*	20.00	460.93	**
Kitchener.....	30,274	44	16 c.p. *s*	7.00	30,728.12	††
		2,051	80 c.p. *s*	8.00		
		57	150 c.p. *s*	8.00		
		34	250 c.p. *s*	13.00		
		2	600 c.p. *s*	25.00		
		18	1,000 c.p. *s*	25.00		
		360	200 watt *m*	15.00		
		30	300 watt *m*	15.00		
		69	300 watt *m*	17.50		
		78	300 watt *m*	20.00		
		175	500 watt *m*	25.00		
Lakefield......	1,428	104	100 watt *m*	17.00	1,768.00	1.24

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Lambeth......	....	34	100 watt *m*	12.00	441.00	**
		2	100 watt *m*	12.00		
		1	200 watt *m*	21.00		
Lanark........	592	37	100 watt *m*	16.00	592.00	1.00
Lancaster.....	560	41	100 watt *m*	36.50	1,495.00	2.67
La Salle.......	574	66	100 watt *m*	15.00	995.50	1.73
Leamington....	5,313	141	400 c.p. *s*	25.00	7,292.70	††
		38	600 c.p. *s*	31.00		
		167	100 watt *m*	13.00		
		24	200 watt *m*	17.00		
Lindsay.......	7,161	423	100 c.p. *s*	15.00	8,176.25	1.14
		27	1,000 c.p. *s*	70.00		
Listowel.......	2,712	161	60 watt *m*	9.00	3,465.66	1.28
		118	100 watt *m*	11.00		
		8	200 watt *m*	25.00		
		26	300 watt *m*	30.00		
		3	500 watt *m*	35.00		
London.......	69,742	1,991	150 c.p. *s*	11.00	52,098.81	††
		298	600 c.p. *s*	30.00		
		313	400 c.p. *s*	24.00		
		101	400 c.p. *s*	18.00		
		32	600 c.p. *s*	28.00		
		8	150 c.p. *s*	10.00		
		42	500 watt *m*	40.00		
		11	500 watt *m*	25.00		
		488	300 watt *m*	18.00		
		63	200 watt *m*	18.00		
		2	50 watt *m*	5.00		
		21	300 watt *m*	20.00		
		27	200 watt *m*	14.00		
London Twp...		3	400 c.p. *s*	24.00	949.00	**
		3	600 c.p. *s*	30.00		
		13	100 c.p. *s*	11.00		
Long Branch ..	4,016	263	100 watt *m*	13.00	3,281.15	†
Lucan........	588	71	100 watt *m*	15.00	1,061.25	1.80
Lucknow......	1,115	57	100 watt *m*	21.00	1,693.00	1.52
		16	200 watt *m*	31.00		
Lynden.......	....	41	100 watt *m*	10.00	410.00	**
Madoc........	1,019	342	75 watt *m*	5.00	1,788.00	1.75
		7	150 watt *m*	6.00		
		3	300 watt *m*	12.00		
Markdale.....	812	88	150 c.p. *s*	8.00	686.70	0.85

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†11 months' operation.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Markham.....	931	104	100 watt *m*	14.00	1,463.00	1.57
Marmora......	1,013	37 35 15	75 watt *m* 100 watt *m* 150 watt *m*	15.00 17.00 20.00	1,450.00	1.43
Martintown...	....	15	100 watt *m*	20.00	300.00	**
Maxville......	742	65	100 c.p. *s*	22.00	1,426.76	1.92
Meaford......	2,708	180 28 35	150 c.p. *s* 100 watt *m* 200 watt *m*	13.00 13.00 22.00	3,425.16	1.26
Merlin........	....	43	100 watt *m*	16.00	688.00	**
Merritton.....	2,596	311	100 watt *m*	9.00	2,799.00	1.08
Midland......	7,116	385 36 30 36	100 c.p. *s* 100 watt *m* 300 watt *m* 500 watt *m*	10.00 7.50 22.00 40.00	6,190.85	0.87
Milton.........	1,775	200 3	100 watt *m* 300 watt *m*	9.00 30.00	1,931.73	1.09
Milverton.....	981	95 12	100 watt *m* 200 watt *m*	9.00 12.00	999.00	1.02
Mimico.......	6,108	206 206 46 1	100 watt *m* 200 watt *m* 300 watt *m* 500 watt *m*	14.00 21.50 28.00 45.00	8,504.78	1.39
Mitchell.......	1,593	232	100 watt *m*	9.00	2,088.00	1.31
Moorefield....	....	25	100 watt *m*	15.00	375.00	**
Mount Brydges	....	49	100 watt *m*	11.00	506.00	**
Mount Forest..	1,888	135 39 16	100 c.p. *s* 150 c.p. *s* 100 watt *m*	12.00 14.00 12.00	2,358.00	1.25
Napanee......	2,984	26 127 40	320 c.p. *s* 100 c.p. *s* 300 watt *m*	37.00 16.00 32.00	4,245,80	1.42
Neustadt......	460	39	150 c.p. *s*	25.00	975.00	2.12
Newbury......	291	48	100 watt *m*	15.00	719.89	2.47
New Hamburg.	1,409	61 162	200 watt *m* 100 watt *m*	12.50 9.00	2,105.92	1.49

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to mnnicipality per annum	Cost per capita
				$ c.	$ c.	$ c.
New Toronto..	6,310	205	75 watt *m*	15.00	8,429.04	1.34
		26	100 watt *m*	16.00		
		58	200 watt *m*	19.00		
		126	500 watt *m*	30.00		
		2	Intersection *m*	28.00		
Niagara Falls..	18,539	787	100 c.p. *s*	11.00	30,661.84	1.65
		60	600 c.p. *s*	18.00		
		2	250 c.p. *s*	13.00		
		197	1,000 c.p. *s*	50.00		
		234	600 c.p. *s*	44.00		
		4	600 c.p. *s*	60.00		
		4	100 watt *m*	11.00		
Niagara-on-the-Lake........	1,633	203	100 watt *m*	11.00	2,646.75	1.62
		24	200 watt *m*	18.00		
Nipigon.......	....	32	100 watt *m*	18.00	576.00	**
Norwich......	1,101	112	100 watt *m*	10.00	2,115.00	1.92
		28	400 watt *m*	35.00		
Norwood......	756	80	100 c.p. *s*	18.00	1,575.00	2.08
		6	100 c.p. *s*	20.00		
		1	100 c.p. *s*	27.00		
Oil Springs....	445	41	100 watt *m*	18.00	753.00	1.69
		1	300 watt *m*	30.00		
Omemee......	489	46	100 c.p. *s*	14.00	924.00	1.89
		10	250 c.p. *s*	28.00		
Orangeville....	2,772	99	150 c.p. *s*	16.00	3,442.36	1.24
		48	250 watt *s*	21.00		
		38	300 watt *m*	48.00		
Oshawa.......	25,550	1	1,000 c.p. *s*	27.00	9,982.05	0.39
		825	100 c.p. *s*	10.00		
		39	100 watt *m*	11.00		
		109	150 watt *m*	12.00		
Ottawa.......	125,496	59	Arc	45.00	71,652.27	0.57
		774	600 c.p. *s*	35.00		
		751	400 c.p. *s*	25.00		
		368	100 c.p. *s*	7.00		
		590	100 watt *m*	6.00		
		2,940	100 watt *m*	48c. per ft.		
Otterville......	....	21	100 watt *m*	11.00	409.72	**
		20	100 watt *m*	11.00		
		12	200 watt *m*	16.00		
Owen Sound...	12,778	407	100 watt *m*	11.00	9,574.75	0.75
		335	250 watt *m*	14.00		
		15	150 watt *m*	11.50		
		6	300 watt *m*	15.00		
		13	400 watt *m*	21.00		
		39	500 watt *m*	35.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Paisley	716	88	100 watt *m*	16.00	1,408.00	1.97
Palmerston	1,758	94	80 c.p. *s*	9.00	1,717.99	0.98
		6	100 c.p. *s*	10.00		
		4	250 c.p. *s*	25.00		
		1	40 watt *m*	9.00		
		10	60 watt *m*	9.00		
		2	100 watt *m*	11.00		
		13	150 watt *m*	11.00		
		2	250 watt *m*	25.00		
		15	300 watt *m*	25.00		
		1	500 watt *m*	35.00		
Paris	4,205	448	100 c.p. *s*	9.00	5,724.90	1.36
		13	400 c.p. *s*	35.00		
		25	500 c.p. *s*	45.00		
Parkhill	968	78	100 watt *m*	14.00	1,437.00	1.48
		15	200 watt *m*	23.00		
Penetanguishene	3,767	184	100 watt *s*	10.00	1,920.00	0.51
		9	200 watt *m*	10.00		
		3	300 watt *m*	10.00		
Perth	3,762	66	100 c.p. *s*	15.00	2,112.80	0.56
		15	250 c.p. *s*	25.00		
		4	400 c.p. *s*	28.00		
		16	600 c.p. *s*	40.00		
Peterborough	22,487	115	400 c.p. *s*	43.00	19,376.04	0.86
		222	60 watt *m*	9.00		
		375	100 watt *m*	10.00		
		482	300 watt *m*	18.00		
		1	500 watt *m*	34.00		
Petrolia	2,532	145	150 c.p. *s*	12.00	2,652.00	1.05
		24	600 c.p. *s*	38.00		
Picton	3,146	85	250 c.p. *s*	20.00	4,359.04	1.39
		222	100 c.p. *s*	12.00		
Plattsville	....	34	100 watt *m*	16.00	544.00	**
Point Edward	1,232	103	150 c.p. *s*	12.00	1,489.25	1.21
		15	250 c.p. *s*	20.00		
Port Arthur	20,092	2,513	100 watt *m*	5.00	16,451.64	0.82
		212	300 watt *m*	10.00		
		174	500 watt *m*	15.00		
Port Colborne	6,202	15	400 c.p. *s*	25.00	7,790.96	††
		78	600 c.p. *s*	28.00		
		126	200 watt *m*	17.00		
		228	100 watt *m*	12.00		
		26	100 watt *m*	14.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Port Credit....	1,600	113 152	100 watt *m* 200 watt *m*	10.00 16.00	3,552.00	2.22
Port Dalhousie.	1,555	128 2	100 watt *m* 200 watt *m*	12.50 15.00	1,630.00	1.05
Port Dover....	1,625	216 19	100 watt *m* 300 watt *m*	12.50 30.00	2,952.60	1.82
Port Elgin.....	1,203	99 26	100 watt *m* 200 watt *m*	14.00 22.00	1,424.64	†
Port Hope.....	4,415	384	100 c.p. *s*	12.00	4,602.00	1.04
Port McNicoll.	825	46	100 watt *m*	11.00	506.00	0.61
Port Perry....	1,288	97 2	100 watt *m* 200 watt *m*	14.00 20.00	1,387.00	1.08
Port Rowan...	558	48 5	100 watt *m* 100 watt *m*	24.00 24.00	1,242.00	2.23
Port Stanley...	693	177	100 watt *m*	11.00	1,925.00	2.78
Prescott.......	2,940	164 105	100 watt *m* 2-Lt. brackets *m*	10.00 17.00	3,425.00	1.16
Preston.......	6,171	348 9 40 6	150 c.p. *s* 250 watt *m* 500 watt *m* 5-Lt. stds. *m*	10.00 18.00 30.00 30.00	5,010.31	0.81
Priceville......	....	14	100 watt *m*	40.00	560.00	**
Princeton.....	....	28	100 watt *m*	13.00	364.00	**
Queenston.....	....	35	100 watt *m*	16.00	549.59	**
Richmond.....	367	24	100 watt *m*	23.00	552.00	1.50
Richmond Hill.	1,197	6 17 99	200 watt *m* 100 watt *m* 75 watt *m*	16.00 12.00 11.00	1,389.00	1.16
Ridgetown....	1,981	186 1 73 19	150 c.p. *s* 1,000 c.p. *s* 100 watt *m* 500 watt *m*	11.00 40.00 10.00 38.00	3,577.66	††
Ripley........	410	44 6	100 watt *m* 200 watt *m*	25.00 40.00	1,310.00	3.20
Riverside......	5,125	206 78 74	100 watt *m* 150 watt *m* 200 watt *m*	11.00 14.50 18.00	4,728.96	††

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†9 months' operation.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Rockwood	....	83	100 watt *m*	9.00	747.00	**
Rodney	690	69 18	100 watt *m* 200 watt *m*	10.00 18.00	1,006.19	1.46
Rosseau	230	31	100 watt *m*	40.00	413.33	†
Russell	....	46	100 watt *m*	22.00	1,012.00	**
St. Catharines	25,347	3,333	100 watt *m*	7.50	25,309.73	††
St. George	....	38	100 watt *m*	8.00	304.00	**
St. Jacobs	....	46	100 watt *m*	10.00	460.00	**
St. Marys	4,073	234 136	100 c.p. *s* 250 c.p. *s*	8.00 12.00	3,504.00	0.86
St. Thomas	16,869	1,067 114 28 6 22	100 c.p. *s* 600 c.p. *s* 250 c.p. *s* 60 watt *m* 300 watt *m*	9.00 34.00 13.00 4.50 22.00	14,506.63	††
Sandwich	11,819	16 87 30 176 270 10 14	600 c.p. *s* 400 c.p. *s* 400 c.p. *s* 100 c.p. *s* 100 c.p. *s* 100 watt *m* 200 watt *m*	35.00 26.00 28.00 12.00 13.00 12.00 21.00	10,555.22	††
Sarnia	17,003	984 47 83 13 82 14	150 c.p. *s* 250 c.p. *s* 400 c.p. *s* 600 c.p. *s* 600 c.p. *s* 300 watt *m*	12.00 16.50 22.00 45.00 35.00 32.00	18,814.65	††
Scarboro Twp.	....	2 221 2 19 433 7 317	200 c.p. *s* 100 c.p. *s* 60 watt *m* 40 watt *m* 100 watt *m* 200 watt *m* 300 watt *m*	17.00 13.00 18.00 12.00 13.00 17.00 26.00	17,148.75	**
Seaforth	1,689	65 58 20	80 c.p. *s* 100 c.p. *s* 300 watt *m*	10.00 11.00 25.00	1,788.00	1.06
Shelburne	1,138	96	150 c.p. *s*	10.00	960.00	0.84

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†4⅔ months' operation.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps]	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Simcoe........	5,044	275	100 c.p. *s*	11.00	3,940.29	††
		27	1,000 c.p. *s*	40.00		
		3	150 watt *m*	11.00		
		8	200 watt *m*	15.00		
		1	500 watt *m*	53.00		
		1	1,000 watt *m*	106.00		
Smiths Falls...	7,452	18	60 watt *m*	9.50	7,696.83	1.03
		104	100 watt *m*	18.00		
		253	300 watt *m*	23.00		
Southampton..	1,700	18	250 watt *m*	22.00	1,546.74	†
		84	100 watt *m*	14.00		
Springfield.....	404	50	100 watt *m*	11.00	550.00	1.36
Stamford Twp.	....	836	100 watt *m*	10.00	8,270.21	**
Stayner.......	949	77	100 watt *s*	10.00	1,022.00	1.08
		18	200 watt *m*	14.00		
Stirling.......	822	121	150 c.p. *s*	8.00	968.04	1.18
Stouffville.....	1,070	122	100 watt *m*	14.00	1,705.66	1.59
Stratford......	18,909	861	100 c.p. *s*	10.00	16,517.32	0.87
		74	600 c.p. *s*	25.00		
		116	600 c.p. *s*	30.00		
		6	600 c.p. *s*	35.00		
		62	1,000 c.p. *s*	34.00		
		4	100 watt *m*	10.00		
		4	500 watt *m*	34.00		
Strathroy.....	2,755	330	150 c.p. *s*	9.00	4,338.96	1.57
		21	400 c.p. *s*	15.00		
		17	600 watt *m*	62.00		
Sunderland....	....	32	100 watt *m*	18.00	612.00	**
		1	500 watt *m*	35.00		
Sutton........	831	119	100 watt *m*	13.00	1,891.34	2.28
		20	200 watt *m*	17.00		
Tara..........	455	67	100 watt *m*	20.00	1,340.00	2.95
Tavistock.....	959	78	100 watt *m*	10.00	1,189.50	1.24
		36	200 watt *m*	12.00		
Tecumseh.....	2,560	17	400 c.p. *s*	21.00	1,089.00	††
		61	100 watt *m*	12.00		
Teeswater.....	835	38	100 watt *s*	20.00	1,460.00	1.75
		20	250 watt *s*	35.00		
Thamesford....	....	47	100 watt *m*	11.00	517.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
†10 months' operation.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Thamesville...	884	67	100 watt	*m*	9.00	1,186.50	1.34
		33	200 watt	*m*	14.00		
		7	200 watt	*m*	18.00		
Thedford......	539	69	100 watt	*m*	15.00	1,035.00	1.92
Thorndale.....	....	31	100 watt	*m*	12.00	372.00	**
Thornton......	....	22	100 watt	*m*	40.00	845.00	**
Thorold.......	5,000	382	75 watt	*m*	7.50	3,551.00	0.71
		40	100 watt	*m*	8.00		
		28	200 watt	*m*	12.00		
		2	300 watt	*m*	15.00		
Tilbury.......	1,905	97	100 watt	*m*	11.00	1,565.55	0.82
		2	100 watt	*m*	11.00		
		25	200 watt	*m*	19.50		
Tillsonburg....	3,189	270	100 c.p.	*s*	8.00	2,872.00	0.90
		47	250 c.p.	*s*	13.00		
		2	1,000 c.p.	*s*	45.00		
Toronto.......	606,370	45,902	100 watt	*m*	8.00-10.00	520,325.71	0.86
		3,042	200 watt	*m*	18.00-23.00		
		67	250 watt	*m*	20.00		
		1,396	300 watt	*m*	28.00-30.00		
		133	500 watt	*m*	45.00		
		5	1,000 watt	*m*	90.00		
		365	100 w, 5-lt. stds.	*m*	47.50		
		68	500 w, 1-lt. stds.	*m*	47.50		
		391	300 w, 1 lt. stds.	*m*	50.00		
		76	500 w, 1 lt. stds.	*m*	52.50		
Toronto Twp..		411	100 watt	*m*	12.00	4,951.26	**
		1	Intersection lt.		43.20		
Tottenham....	538	49	100 watt	*s*	25.00	1,225.08	2.28
Tweed........	1,206	125	100 c.p.	*s*	15.00	1,840.00	1.53
Uxbridge......	1,482	129	100 watt	*m*	12.00	1,548.00	1.04
Victoria Harbor	950	78	100 watt	*m*	9.00	702.00	0.74
Walkerton.....	2,280	38	200 watt	*s*	24.50	2,142.25	†
		112	100 watt	*s*	12.50		
Walkerville....	11,219	56	600 c.p.	*s*	45.00	15,543.48	††
		228	100 watt	*m*	8.00		
		582	150 watt	*m*	11.00		
		112	200 watt	*m*	13.00		
		198	300 watt	*m*	18.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

†11 months' operation.

††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Wallaceburg...	4,268	185	150 c.p. *s*	12.00	4,319.01	1.01
		11	400 c.p. *s*	25.00		
		3	1,000 c.p. *s*	39.00		
		50	300 watt *m*	39.00		
Wardsville.....	209	35	75 watt *m*	20.00	700.00	3.35
Warkworth....	....	26	100 watt *m*	18.00	649.50	**
		6	200 watt *m*	30.00		
Waterdown....	917	75	100 watt *s*	11.00	930.00	1.01
		6	200 watt *s*	17.50		
Waterford.....	1,091	178	100 watt *m*	9.00	1,608.00	1.47
		1	100 watt *m*	9.00		
Waterloo......	8,389	44	5-Lt. stds. *m*	36.00	7,387.05	0.88
		10	3-Lt. stds. *m*	25.00		
		9	500 watt *m*	35.00		
		3	500 watt *m*	30.00		
		18	300 watt *m*	21.00		
		12	200 watt *m*	12.00		
		66	150 watt *m*	10.00		
		125	100 watt *m*	10.00		
		346	80 watt *m*	8.00		
Watford.......	977	89	100 watt *m*	12.50	1,332.48	1.36
		11	200 watt *m*	20.00		
Waubaushene..	....	45	100 watt *m*	8.00	349.33	**
Welland.......	10,141	182	600 c.p. *s*	30.00	11,176.09	††
		4	500 watt *m*	28.00		
		51	200 watt *m*	18.00		
		410	100 watt *m*	11.00		
		12	300 watt *m*	30.00		
Wellesley......	....	60	100 watt *m*	12.00	720.00	**
Wellington....	900	32	250 c.p. *s*	19.00	1,070.04	1.19
		39	100 c.p. *s*	12.00		
West Lorne....	741	83	100 watt *m*	10.00	1,010.04	1.36
		10	200 watt *m*	18.00		
Weston.......	4,606	456	100 c.p. *s*	7.50	7,777.58	1.70
		2	250 c.p. *s*	10.00		
		113	600 c.p. *s*	30.00		
		20	300 watt *m*	11.00		
		5	5-Lt. stds. *m*	21.00		
		2	Signs	110.00		
Wheatley......	748	71	100 watt *m*	12.00	1,852.00	2.48
		40	300 watt *m*	25.00		

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.
††Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1931, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Whitby	5,463	133	80 c.p.	*s*	9.00	3,311.42	0.61
		79	100 c.p.	*s*	10.00		
		141	100 watt	*m*	7.50		
		3	500 watt	*m*	11.50		
Wiarton	1,880	100	100 watt	*m*	18.00	1,399.00	†
		25	200 watt	*m*	30.00		
Williamsburg	....	17	100 watt	*m*	12.00	204.00	**
Winchester	970	118	100 watt	*m*	9.00	1,062.00	1.09
Windermere	124	13	100 watt	*m*	35.00	455.00	3.67
Windsor	70,031	2,909	100 c.p.	*s*	11.50	87,768.07	††
		11	250 c.p.	*s*	17.50		
		984	400 c.p.	*s*	27.50		
		706	600 c.p.	*s*	36.00		
		66	1,000 c.p.	*s*	46.00		
		15	400 c.p., Pk. Lt. 4 months				
Wingham	2,229	25	200 watt	*s*	33.00	3,597.00	1.61
		99	100 watt	*s*	20.00		
		24	200 watt	*m*	33.00		
Woodbridge	737	82	100 watt	*m*	10.00	827.52	1.12
Woodstock	1,089	13	250 c.p.	*s*	20.00	7,783.40	0.71
		531	100 c.p.	*s*	8.00		
		89	75 watt	*m*	8.00		
		25	150 watt	*m*	12.00		
		75	300 watt	*m*	32.00		
Woodville	403	35	100 watt	*m*	12.00	500.00	1.24
		4	200 watt	*m*	20.00		
Wyoming	473	50	100 watt	*m*	15.00	750.00	1.59
York Twp., East	....	908	100 watt	*m*	13.00	18,191.02	
		238	300 watt	*m*	26.00		
		15	500 watt	*m*	29.00		
York Twp., North	....	81	100 watt	*m*	12.00	4,526.03	
		19	100 watt	*m*	13.00		
		31	100 watt	*m*	13.50		
		12	100 watt	*m*	15.00		
		65	200 watt	*m*	23.00		
		14	200 watt	*m*	30.00		
		34	150 watt	*m*	32.00		
		1	400 watt	*m*	31.00		
		2	1,000 watt	*m*	65.00		
Zurich	....	63	100 watt	*m*	11.00	693.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system.

†7 months' operation.

††Part of cost paid direct in form of debenture charges.

STATEMENT "D"

(pages 382 to 399)

Statistics Relating to the Supply of Electrical Energy to Consumers
by Individual Ontario Municipalities Served by the
Hydro-Electric Power Commission
for the year 1931

STATEMENT "E"

(pages 400 to 415)

Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by the
Hydro-Electric Power Commission
for the year 1931

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Ontario Municipalities Served by The Hydro-Electric Power Commission

The following tabulation of various statistical data relating to the supply of electrical energy to consumers by individual municipalities receiving power at cost from the Commission sets forth, regarding the results of operation from the standpoint of the consumers, much useful and interesting information.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or of the smallness of the quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

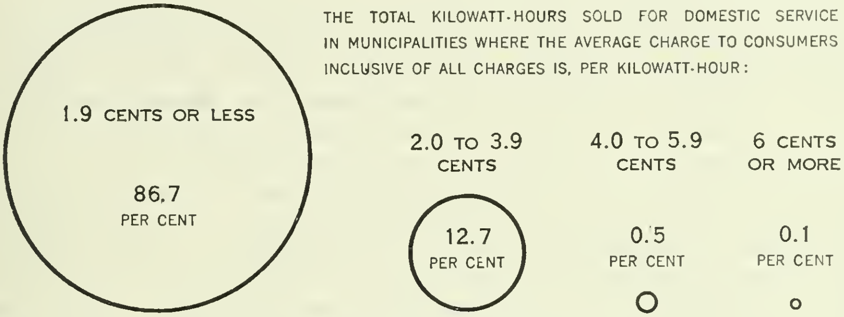
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should specially be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give very misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are simply statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE
IN MUNICIPALITIES SERVED BY THE
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

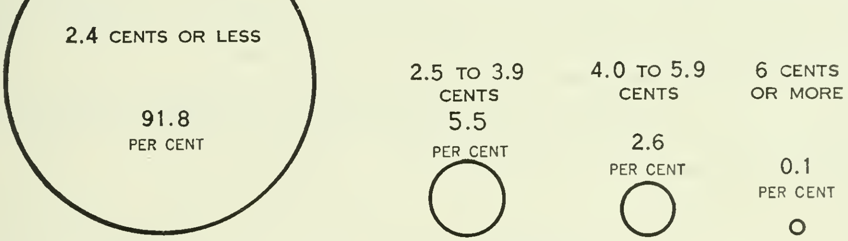
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



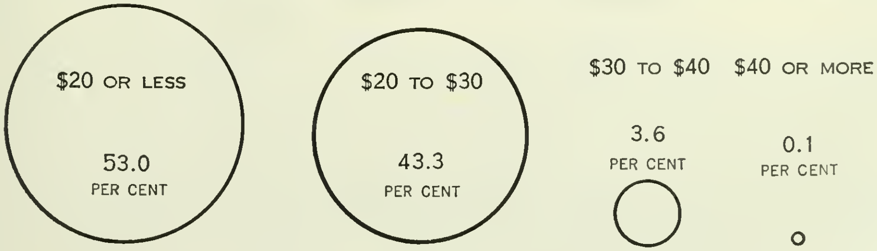
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are principally due to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour, to the consumer, and *vice versa*.*

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*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour." This will readily be perceived from a simple arithmetical example.

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	$	kw-hr.	cents	$
Residence.........	1,000,000	4	40,000	3,000,000	3	90,000
Power............	9,000,000	1	90,000	7,000,000	0.75	52,500
Total..........	10,000,000	......	130,000	10,000,000	......	142,500
Average revenue..	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A *the rates* both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the key to the situation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil an important function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made economically possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for effecting comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the ultimate consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations and the approximate transmission distances from the nearest of the generating stations supplying the system, are also given.

A feature of the electrical service in Ontario municipalities served by the Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. There are in all about 190 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 79 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 52 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 27 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 11 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing electrical service "at cost"; the rate schedules scientifically designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from $2.00 to $3.00 when he obtains the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Belleville	E.O.	13,443	13	80,175.95	4,039,572	3,046	111	2.20	2.0
Brantford	Nia.	30,103	79	166,278.09	11,030,867	6,515	142	2.14	1.5
Chatham	Nia.	16,441	193	77,643.30	3,647,366	3,785	80	1.71	2.1
East Windsor	Nia.	16,203	239	77,126.15	4,288,635	2,713	129	2.32	1.8
Fort William	T.B.	24,635	87	210,171.46	27,879,923	5,494	418	3.15	0.8
Galt	Nia.	13,752	92	105,969.99	5,670,010	3,519	136	2.53	1.9
Guelph	Nia.	20,393	75	101,228.46	6,061,053	4,916	101	1.70	1.7
Hamilton	Nia.	144,529	53	886,313.22	60,866,504	36,896	147	2.13	1.4
Kingston	E.O.	21,616	50	99,385.86	5,031,305	5,556	77	1.52	2.0
Kitchener	Nia.	30,274	95	190,049.23	11,436,958	6,926	139	2.32	1.7
London	Nia.	69,742	123	467,760.94	34,286,682	16,965	170	2.32	1.4
Niagara Falls	Nia.	18,539	1	147,591.52	12,050,171	4,361	226	2.77	1.2
Oshawa	E.O.	25,550	75	162,125.69	6,137,947	5,896	84	2.22	2.6
Ottawa	E.O.	125,496	1	368,906.39	43,205,511	12,178	299	2.52	0.9
Owen Sound	G.B.	12,778	32	57,906.42	3,291,318	3,092	90	1.58	1.8
Peterborough	E.O.	22,487	2	113,554.75	6,259,881	5,197	100	1.82	1.8
Port Arthur	T.B.	20,092	73	108,984.41	8,788,106	4,163	177	2.19	1.2
St. Catharines	Nia.	25,347	18	142,788.23	11,462,232	6,170	157	1.96	1.3
St. Thomas	Nia.	16,869	134	102,173.05	6,590,051	4,157	133	2.06	1.6
Sarnia	Nia.	17,003	205	101,605.37	5,280,474	4,574	97	1.87	1.9
Stratford	Nia.	18,909	119	150,432.56	9,117,450	4,321	176	2.91	1.6
Toronto	Nia.	606,370	78	3,504,078.22	237,250,834	148,879	134	1.97	1.5
Toronto D.C. and 60 cycle*	......	....	....	50,996.27	1,660,407	896	139	4.25	3.0
Welland	Nia.	10,141	14	51,553.49	2,747,017	2,223	103	1.94	1.9
Windsor	Nia.	70,031	238	505,424.36	31,574,680	14,400	180	2.89	1.6
Woodstock	Nia.	10,898	94	79,454.56	4,810,021	2,842	141	2.33	1.6

*This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. The service has been continued at the request of the customers who preferred to retain the electrical apparatus installed for this special service, and has been continued at the rates prevailing before the service was acquired by the Commission.

Group II—TOWNS

			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Alexandria	E.O.	2,370	30	7,295.93	163,769	320	43	1.93	4.5
Amherstburg	Nia.	3,083	257	20,297.83	934,876	645	121	2.63	2.2
Aylmer	Nia.	1,996	145	11,343.60	503,545	601	69	1.56	2.3
Barrie	G.B.	7,166	48	45,271.66	3,404,457	1,835	155	2.06	1.3
Brampton	Nia.	5,137	78	35,786.15	2,400,216	1,357	149	2.23	1.5
Brockville	E.O.	9,432	62	41,002.20	2,124,417	2,452	73	1.41	1.9
Carleton Place	E.O.	4,278	47	19,177.90	539,975	929	49	1.74	3.6
Collingwood	G.B.	6,027	24	26,487.67	1,392,679	1,403	83	1.58	1.1
Dundas	Nia.	5,137	52	19,784.23	1,185,031	1,172	84	1.41	1.7
Dunnville	Nia.	3,412	37	12,099.05	488,092	658	64	1.60	2.5

NOTE: Systems:—Niagara = Nia.; Georgian Bay = G.B.; Eastern Ontario = E.O.; Thunder Bay=T.B.

"D"

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

Population, 10,000 or more

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
54,926.33	2,254,807	513	368	8.97	2.4	49,295.94	100	2,340.4	3,659
47,771.08	4,647,431	776	512	5.27	1.0	127,871.17	115	7,234.7	7,406
71,246.60	3,741,738	741	433	8.23	1.9	59,822.35	104	3,084.3	4,630
23,618.38	989,397	294	276	6.58	2.4	46,059.43	49	2,059.2	3,056
69,718.74	3,115,811	890	293	6.55	2.2	61,285.93	98	3,161.9	6,482
43,677.69	2,191,547	507	363	7.24	2.0	79,239.07	125	4,375.4	4,151
48,493.53	3,024,596	718	352	5.64	1.6	109,513.29	148	6,578.0	5,782
316,448.95	23,576,083	5,316	442	5.93	1.3	1,419,184.09	1,340	102,976.4	43,552
71,799.59	3,925,265	866	378	6.92	1.8	84,543.32	140	4,410.2	6,562
106,891.03	6,286,026	950	555	9.44	1.7	246,786.67	247	12,885.0	8,123
200,342.80	13,612,694	2,726	423	6.23	1.5	391,510.38	503	19,602.0	20,194
64,277.12	5,476,105	899	564	6.62	1.2	69,244.60	89	4,046.2	5,349
61,246.83	2,215,873	513	360	9.95	2.8	174,528.14	101	7,946.4	6,510
160,255.53	9,829,063	1,392	578	9.43	1.6	98,952.49	222	6,686.4	13,792
35,286.99	2,017,007	574	294	5.15	1.7	37,685.78	124	2,306.2	3,790
63,425.98	3,384,759	759	372	6.96	1.9	92,678.52	155	5,088.1	6,111
56,341.94	3,811,216	717	433	6.40	1.5	812,273.81	93	45,283.0	4,973
46,912.45	3,091,199	677	390	5.91	1.5	84,479.14	145	5,711.0	6,992
46,693.72	3,028,001	664	386	5.96	1.5	53,276.10	102	3,098.5	4,923
49,307.01	2,728,251	664	357	6.45	1.8	157,154.00	89	5,586.0	5,327
52,609.35	2,559,185	638	337	7.10	2.1	61,243.38	144	2,714.1	5,103
2,816,593.68	123,482,704	25,126	411	9.37	2.3	3,268,048.99	4,266	137,941.0	178,271
217,859.78	5,489,250	1,393	307	12.20	4.0	528,706.20	1,033	16,625.0	3,322
31,672.11	1,764,807	433	342	6.14	1.8	62,048.77	77	3,492.1	2,733
270,976.09	15,364,213	2,345	540	9.52	1.8	203,554.74	336	9,696.4	17,081
41,932.75	2,608,860	461	472	7.58	1.6	52,466.77	92	3,337.2	3,395

Note—The figures for power service for Toronto do not include street railway power, or exhibition power.

Note—The above group of 25 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

of Population, 2,000 or more

$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
3,997.76	99,936	93	87	3.49	4.0	6,217.15	15	189.5	428
7,384.31	310,320	138	189	4.49	2.4	6,314.37	16	208.8	799
7,649.53	343,059	134	217	4.85	2.2	5,101.59	12	273.2	747
25,971.15	1,495,001	345	366	6.35	1.7	14,956.32	44	838.8	2,224
15,738.99	833,852	229	305	5.75	1.9	16,051.18	54	1,003.5	1,640
24,841.17	1,535,373	430	299	4.84	1.6	44,291.22	71	2,041.3	2,953
8,851.99	275,218	183	126	4.04	3.2	27,680.60	20	1,119.2	1,132
10,983.15	463,548	261	148	3.51	2.4	20,947.43	55	1,275.0	1,719
11,793.00	545,526	186	250	5.41	2.2	21,358.40	39	1,402.4	1,397
11,763.25	532,011	188	236	5.21	2.2	15,046.50	32	635.0	878

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Elmira	Nia.	2,940	107	16,552.29	873,844	512	139	2.63	1.9
Fergus	Nia.	2,465	94	14,116.96	560,045	608	77	1.95	2.5
Goderich	Nia.	4,913	167	27,898.71	1,167,623	1,160	83	1.98	2.4
Hanover	G.B.	2,920	35	18,930.53	783,200	703	94	2.26	2.4
Hespeler	Nia.	2,769	90	18,254.74	901,707	683	110	2.22	2.0
Huntsville	G.B.	2,903	26	10,639.75	467,489	542	70	1.60	2.3
Ingersoll	Nia.	5,150	104	32,496.04	1,851,116	1,315	117	2.05	1.8
Kincardine	G.B.	2,218	69	13,526.92	400,331	583	59	2.00	3.4
Kingsville	Nia.	2,200	255	13,183.82	336,590	704	40	1.56	3.9
Leamington	Nia.	5,313	263	25,478.62	986,972	1,287	65	1.67	2.6
Lindsay	E.O.	7,161	19	37,919.62	1,375,973	1,840	62	1.72	2.7
Listowel	Nia.	2,712	154	17,778.07	854,250	700	102	2.12	2.1
Meaford	G.B.	2,708	23	12,194.00	417,391	628	55	1.62	2.9
Merritton	Nia.	2,596	16	12,143.12	647,239	630	86	1.62	1.9
Midland	G.B.	7,116	25	34,816.42	2,159,628	1,540	116	1.88	1.6
Mimico	Nia.	6,108	75	54,590.99	3,412,652	1,694	171	2.74	1.6
Napanee	E.O.	2,984	19	28,013.89	1,129,071	766	123	3.05	2.5
New Toronto	Nia.	6,310	76	33,141.89	1,926,370	1,395	120	2.07	1.7
Orangeville	G.B.	2,772	47	12,913.59	522,345	650	67	1.68	2.5
Paris	Nia.	4,205	76	24,229.68	1,334,251	1,059	105	1.91	1.8
Penetanguishene	G.B.	3,767	29	9,570.03	521.530	560	79	1.43	1.8
Perth	E.O.	3,762	21	22,183.45	908,622	880	87	2.13	2.4
Petrolia	Nia.	2,532	231	11,084.19	449,596	643	59	1.45	2.5
Picton	E.O.	3,146	33	21,192.31	1,009,903	966	87	1.83	2.1
Port Colborne	Nia.	6,202	21	30,210.67	1,472,454	1,223	97	2.00	2.1
Port Hope	E.O.	4,415	43	28,814.79	837,452	1,220	57	1.97	3.4
Prescott	E.O.	2,940	48	16,143.53	1,064,394	653	136	2.07	1.5
Preston	Nia.	6,171	86	47,682.46	2,652,013	1,538	144	2.58	1.8
Riverside	Nia.	5,125	243	40,470.28	2,056,365	1,093	154	3.04	2.0
St. Marys	Nia.	4,073	133	28,076.43	1,388,726	1,021	114	2.31	2.0
Sandwich	Nia.	11,819	245	91,273.04	5,852,099	2,803	174	2.71	1.6
Simcoe	Nia.	5,044	103	17,431.74	883,567	997	28	1.53	2.0
Smiths Falls	E.O.	7,452	38	40,716.75	1,612,943	1,692	80	2.02	2.5
Strathroy	Nia.	2,755	150	20,288.12	973,524	803	102	2.13	2.1
Tecumseh	Nia.	2,560	246	15,522.45	606,293	481	105	2.70	2.6
Thorold	Nia.	5,000	9	19,385.93	1,051,056	1,181	75	1.38	1.8
Tillsonburg	Nia.	3,189	116	13,870.07	668,751	843	66	1.38	2.1
Walkerton*	G.B.	2,280	1	11,282.58	365,587	524	......	.....	...
Walkerville	Nia.	11,219	239	105,476.65	7,077,447	2,468	234	3.48	1.5
Wallaceburg	Nia.	4,268	211	17,432.67	764,044	1,003	64	1.46	2.3
Waterloo	Nia.	8,389	96	57,887.66	3,630,530	1,836	167	2.66	1.6
Weston	Nia.	4,606	80	37,855.97	2,748,538	1,201	195	2.69	1.4
Whitby	E.O.	5,463	80	19,464.20	1,000,550	810	104	2.03	1.9
Wingham	G.B.	2,229	70	12,770.36	378,788	552	57	1.93	3.4

*Ten months' operation.

NOTE—The above group of 54 towns utilizes about 12 per cent. of the power distributed by the Commission to Ontario municipalities.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

of Population, 2,000 or more

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
6,046.20	223,652	117	153	4.15	2.7	5,895.42	20	389.0	649
6,881.57	174,594	116	123	4.86	3.9	11,751.93	16	428.3	740
13,134.22	467,565	237	172	4.82	2.8	14,737.15	17	716.8	1,414
6,405.23	237,679	121	171	4.60	2.7	19,029.21	18	699.1	842
5,787.18	275,581	108	212	4.45	2.1	28,893.61	25	1,505.9	816
6,351.87	288,416	129	215	4.73	2.2	14,920.15	10	709.8	681
16,030.34	852,367	249	294	5.52	1.9	24,822.34	43	1,329.8	1,607
6,636.36	177,105	122	102	3.83	3.7	7,847.00	18	337.8	723
7,030.39	208,642	170	104	3.50	3.4	3,498.26	13	140.1	887
16,385.27	690,190	238	239	5.67	2.4	16,657.99	30	577.8	1,555
22,234.74	843,319	339	220	5.79	2.6	28,096.63	77	1,457.5	2,256
8,609.18	354,603	146	195	4.74	2.4	12,590.23	23	565.5	869
6,402.58	210,441	132	133	4.04	3.0	4,756.22	16	235.6	776
2,347.28	116,828	60	170	3.40	2.0	67,492.03	10	2,882.1	770
13,938.03	749,660	237	257	4.78	1.9	55,787.16	64	4,094.5	1,841
8,804.72	460,374	132	293	5.60	1.9	8,116.15	12	411.6	1,838
16,972.66	472,688	188	209	7.52	3.6	13,658.76	34	587.6	988
11,391.56	667,286	146	392	6.69	1.7	114,933.36	27	5,250.0	1,568
9,004.49	336,950	158	178	4.75	2.7	8,507.19	27	371.3	835
8,594.97	415,978	179	195	4.02	2.1	13,460.75	22	804.5	1,260
3,940.42	229,245	102	189	3.25	1.7	11,571.60	27	509.4	689
14,381.71	502,009	186	224	6.43	2.9	14,570.67	25	634.3	1,091
6,709.64	251,469	174	118	3.14	2.7	20,347.43	53	682.0	870
11,436.97	503,316	188	221	5.02	2.3	9,130.85	44	540.0	1,198
14,089.73	717,942	252	237	4.66	2.0	15,652.62	21	558.0	1,496
15,045.79	421,272	195	180	6.43	3.6	27,582.88	48	1,079.4	1,463
9,074.16	524,269	167	236	4.08	1.7	5,656.92	21	352.8	841
19,104.14	830,621	232	302	6.95	2.3	41,507.45	49	2,291.0	1,819
5,529.95	203,127	61	285	7.81	2.7	9,660.25	8	326.5	1,162
9,124.12	357,526	192	157	4.00	2.6	17,168.59	35	760.6	1,248
21,573.58	1,044,337	237	367	7.59	2.1	14,649.32	37	782.0	3,077
23,580.07	1,321,436	296	382	6.82	1.8	27,212.36	41	1,207.2	1,334
15,712.64	638,942	269	197	4.84	2.5	26,637.24	45	1,083.3	2,006
11,071.97	471,395	180	218	5.13	2.3	9,449.58	26	424.0	1,009
3,713.63	109,085	50	175	5.95	3.4	3,988.76	6	134.6	537
6,705.36	456,545	182	210	3.09	1.5	32,405.13	13	1,589.3	1,376
12,552.78	623,524	228	239	4.71	2.0	11,052.79	30	586.8	1,101
6,620.66	189,551	135	......	......	.....	4,372.89	15	197.8	674
34,075.65	1,564,893	341	375	8.16	2.2	157,371.30	102	7,671.0	2,911
10,097.45	469,520	217	185	3.99	2.2	39,263.19	28	1,467.3	1,248
21,688.02	1,039,558	239	367	7.66	2.1	31,895.12	77	1,935.2	2,152
9,165.58	502,869	179	233	4.25	1.8	40,711.84	26	2,054.0	1,406
9,948.09	396,264	159	216	5.44	2.5	14,994.69	15	589.6	984
7,370.70	211,713	161	109	3.81	3.5	10,568.66	29	412.0	742

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent. of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Acton	Nia.	1,951	91	10,177.68	542,169	480	93	1.75	1.9
Agincourt	Nia.	P.V.	93	4,702.56	138,448	138	84	2.86	3.4
Ailsa Craig	Nia.	516	148	2,572.77	82,879	126	53	1.65	3.1
Alliston	G.B.	1,364	74	8,894.37	181,886	350	44	2.14	4.9
Alvinston	Nia.	657	267	4,546.57	68,062	154	36	2.43	6.7
Ancaster Twp	Nia.	....	59	8,952.64	418,362	262	136	2.90	2.1
Apple Hill	E.O.	P.V.	19	1,026.30	15,409	43	31	2.09	6.7
Arkona	Nia.	383	250	2,447.61	50,836	98	40	2.92	4.8
Arthur	G.B.	954	63	4,612.80	89,853	173	43	2.22	5.1
Athens	E.O.	614	75	4,554.74	86,159	130	56	2.96	5.3
Ayr	Nia.	776	84	4,676.23	219,468	193	96	2.04	2.1
Baden	Nia.	P.V.	103	3,494.94	162,230	130	106	2.28	2.2
Beachville	Nia.	P.V.	101	3,009.00	110,718	128	73	1.98	2.7
Beaverton*	G.B.	988	28	9,218.07	316,515	423	66	1.91	2.9
Beeton	G.B.	561	80	3,866.35	75,794	121	52	2.66	5.1
Belle River	Nia.	715	250	4,189.51	144,714	180	67	1.94	2.9
Blenheim	Nia.	1,630	202	8,267.33	318,103	486	55	1.42	2.6
Bloomfield	E.O.	637	29	2,724.65	96,608	152	53	1.49	2.8
Blyth	Nia.	621	161	3,688.22	86,091	160	46	1.96	4.2
Bolton	Nia.	609	98	2,829.29	80,716	151	46	1.59	3.5
Bothwell	Nia.	575	217	2,731.71	104,080	161	54	1.41	2.6
Bradford	G.B.	933	74	5,315.32	108,015	203	45	2.22	4.9
Brantford Twp	Nia.	....	79	19,468.45	889,058	765	98	2.14	2.2
Brechin	G.B.	P.V.	18	1,125.37	22,440	42	46	2.29	5.0
Bridgeport	Nia.	P.V.	98	3,383.14	166,587	105	135	2.74	2.0
Brigden	Nia.	P.V.	233	2,407.98	54,174	110	42	1.85	4.4
Brighton	E.O.	1,343	12	10,350.31	222,514	405	46	2.13	4.6
Brussels	Nia.	725	159	5,324.30	144,934	207	60	2.21	3.7
Burford	Nia.	P.V.	83	4,324.12	209,397	186	94	1.95	2.1
Burgessville	Nia.	P.V.	116	1,343.15	39,105	55	60	2.04	3.4
Caledonia	Nia.	1,456	65	5,200.46	151,892	305	44	1.49	3.4
Campbellville	Nia.	P.V.	96	1,362.14	26,392	40	55	2.84	5.1
Cannington	G.B.	849	36	4,853.42	170,647	236	61	1.72	2.8
Cardinal	E.O.	1,249	38	4,967.33	130,085	253	44	1.66	3.8
Cayuga	Nia.	661	82	2,905.53	70,580	106	59	2.42	4.1

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*Includes certain rural customers.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent. of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement "D," page 382.

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
3,487.21	167,724	84	168	3.50	2.1	17,160.37	18	678.1	582
960.47	31,285	23	119	3.64	3.1	1,876.73	3	79.5	164
1,406.28	46,398	39	100	3.04	3.0	2,821.91	3	97.6	168
4,289.70	102,475	102	81	3.40	4.2	3,121.40	15	144.8	467
2,857.27	46,611	56	68	4.14	6.1	906.15	3	20.0	213
1,697.38	79,670	39	175	3.72	2.1	623.25	5	37.0	306
814.58	15,094	18	70	3.77	5.4	299.88	1	10.2	62
1,548.92	37,523	40	82	3.40	4.1	975.07	3	26.1	141
3,849.03	67,313	85	66	3.77	5.7	1,478.94	4	46.9	262
2,308.75	38,657	47	71	4.28	6.0	1,272.66	1	38.6	178
1,768.46	78,063	45	141	3.20	2.3	1,234.38	4	39.6	242
1,430.49	58,337	33	154	3.78	2.5	4,952.44	3	201.6	166
880.77	26,248	28	80	2.67	3.4	7,433.81	4	342.8	160
2.356.39	104,698	63	143	3.22	2.3	2,114.29	10	100.7	496
2,513.06	46,578	37	108	5.82	5.4	3,596.77	6	110.1	164
1,534.34	45,485	51	86	2.91	3.4	1,418.15	4	57.5	235
6,341.53	296,614	126	203	4.33	2.1	5,066.74	12	199.9	624
849.08	28,218	25	94	1.83	3.0	2,224.56	8	84.5	185
1,800.63	39,279	49	69	3.16	4.6	779.15	4	39.6	213
999.79	27,970	42	57	2.03	3.6	2,367.12	9	95.3	202
1,360.55	56,030	49	98	2.39	2.4	878.91	5	67.0	215
3,528.25	71,292	62	96	4.74	4.9	3,358.70	8	151.0	273
4,069.17	191,338	44	371	7.89	2.1	3,903.96	5	173.0	814
1,030.59	25,599	30	76	3.07	4.0	1,073.54	4	38.0	76
1,018.37	35,383	19	173	4.99	2.9	729.64	4	31.0	128
1,745.58	48,625	39	105	3.78	3.6	934.89	4	35.6	153
4,869.22	132,553	105	105	3.86	3.7	3,283.45	11	181.0	521
2,366.11	58,347	62	80	3.23	4.0	607.88	2	22.9	271
943.69	46,925	33	115	2.31	2.0	1,786.23	4	70.5	223
592.57	14,548	21	55	2.24	4.1	1,072.05	3	44.8	79
4,518.22	167,222	87	160	4.33	2.7	2,241.53	8	92.9	400
458.93	14,391	8	150	4.78	3.2	....	......	....	48
2,299.22	73,056	71	88	2.78	3.1	843.86	10	51.7	317
1,808.04	41,519	52	79	3.43	4.4	569.58	2	17.0	307
2,558.62	59,824	53	50	4.22	4.3	1,573.82	4	43.5	163

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Chatsworth	G.B.	251	23	1,308.17	31,175	68	41	1.70	4.2
Chesley	G.B.	1,702	46	8,335.36	294,273	421	59	1.67	2.8
Chesterville	E.O.	1,000	44	5,215.00	202,350	221	78	2.08	2.6
Chippawa	Nia.	1,222	4	7,130.73	358,696	293	104	2.07	2.0
Clifford	Nia.	496	173	2,171.95	44,144	100	38	1.85	4.9
Clinton	Nia.	1,911	155	11,497.61	496,054	512	81	1.87	2.3
Coldwater	G.B.	563	17	2,662.98	118,586	133	75	1.70	2.3
Comber	Nia.	P.V.	216	2,538.42	70,718	104	58	2.07	3.6
Cookstown	G.B.	P.V.	65	2,191.26	28,387	100	24	1.86	7.7
Cottam	Nia.	P.V.	257	2,504.11	62,486	104	50	2.01	4.0
Courtright	Nia.	370	215	1,923.46	29,443	62	37	2.41	6.5
Creemore	G.B.	598	60	2,266.16	73,443	158	39	1.22	3.0
Dashwood	Nia.	P.V.	163	1,840.15	44,732	67	56	2.29	4.1
Delaware	Nia.	P.V.	137	1,327.34	24,302	50	41	2.26	5.5
Deseronto†	E.O.	1,331	32	6,733.46	130,052	301	40	2.03	5.2
Dorchester	Nia.	P.V.	129	2,608.51	98,984	128	64	1.68	2.6
Drayton	Nia.	559	169	2,976.24	93,780	154	51	1.61	3.1
Dresden	Nia.	1,403	210	5,955.44	196,573	434	42	1.27	3.0
Drumbo	Nia.	P.V.	90	2,021.92	65,189	82	66	2.05	3.1
Dublin	Nia.	P.V.	140	1,246.49	30,067	37	68	2.81	4.1
Dundalk	G.B.	659	18	2,533.73	71,963	161	37	1.32	3.5
Durham	G.B.	1,744	23	5,703.53	219,329	402	46	1.20	2.6
Dutton	Nia.	801	152	3,354.37	136,560	203	56	1.38	2.5
Elmvale	G.B.	P.V.	32	2,587.82	82,707	143	50	1.55	3.1
Elmwood	G.B.	P.V.	40	1,067.09	18,353	56	27	1.59	5.8
Elora	Nia.	1,306	94	7,421.51	297,480	303	81	2.03	2.5
Embro	Nia.	443	107	2,808.82	76,804	98	66	2.41	3.7
Erieau	Nia.	202	210	3,343.46	84,503	121	60	2.34	4.0
Erie Beach*	Nia.	23	209	1,454.99	11,342	66	15	1.90	12.8
Essex	Nia.	1,880	254	8,291.80	303,432	451	56	1.54	2.7
Etobicoke Twp.	Nia.	11,034	73	78,556.69	3,378,417	2,908	97	2.25	2.3
Exeter	Nia.	1,606	155	11,496.96	445,708	443	84	2.17	2.6
Finch	E.O.	365	53	2,145.46	35,429	76	40	2.45	6.1
Flesherton	G.B.	448	7	2,523.69	73,872	131	48	1.64	3.4
Fonthill	Nia.	833	25	5,121.68	184,289	199	62	1.71	2.8
Forest	Nia.	1,405	256	10,568.40	362,331	453	67	2.95	2.9
Georgetown	Nia.	1,997	100	13,255.44	734,109	646	95	1.72	1.8
Glencoe	Nia.	779	229	5,411.85	137,140	220	52	2.05	3.9
Grand Valley	G.B.	590	51	3,240.63	66,763	147	40	1.91	4.8
Granton	Nia.	P.V.	147	1,756.50	64,133	78	69	1.88	2.7

*Unusual conditions. Summer resort. †Eleven months' operation.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
1,452.21	20,007	26	58	4.17	7.2	336.09	1	11.3	95
4,314.44	175,985	104	142	3.49	2.5	9,850.36	21	376.6	546
2,304.19	69,264	57	101	3.37	3.3	2,055.97	3	68.0	281
1,679.08	102,828	33	225	3.68	1.6	1,519.44	6	57.0	332
1,483.26	37,000	39	79	3.17	4.0	124.31	1	5.0	140
5,844.46	194,989	128	131	3.84	3.0	5,725.11	15	213.8	655
1,533.38	57,353	56	84	2.26	2.7	4,389.57	4	179.9	193
2,022.69	47,877	44	89	3.75	4.2	2,633,12	3	71.8	151
1,416.85	22,400	33	53	3.37	6.3	363.59	3	16.8	136
1,588.37	63,857	33	177	4.41	2.5	380.00	1	16.7	138
979.79	17,541	22	65	3.63	5.6	936.89	2	14.2	86
1,830.17	67,117	52	105	2.85	2.7	1,315.99	4	43.9	214
1,024.65	18,959	26	62	3.35	5.4	1,335.65	1	41.3	94
774.87	18,104	20	50	3.23	4.3	....	......	....	70
2,759.85	68,762	72	87	3.48	4.0	2,873.78	13	....	387
980.67	27,242	28	76	2.72	3.6	435.67	1	26.9	157
1,908.35	49,918	61	68	2.61	3.8	1,098.45	5	50.4	220
5,107.79	172,033	116	124	3.67	3.0	5,688.86	14	214.7	564
908.90	27,075	24	94	3.16	3.4	865.77	2	28.5	108
887.64	16,505	23	55	2.96	5.4	500.72	3	20.6	63
2,252.99	66,953	73	77	2.59	3.4	2,031.53	3	107.2	237
4,000.06	136,205	110	108	3.17	2.9	10,613.44	13	424.4	525
2,563.78	95,042	71	112	3.01	2.7	3,266.15	7	145.4	281
1,809.15	58,466	56	87	2.69	3.1	3,325.73	10	164.5	209
551.90	11,177	18	49	2.42	4.9	1,263.07	1	29.8	75
3,658.17	111,939	75	123	4.01	3.3	7,980.93	3	346.0	381
1,767.87	37,164	47	66	3.13	4.8	1,446.67	2	43.9	147
1,060.49	28,908	13	201	7.36	3.7	895.54	2	37.4	136
197.18	2,974	3	83	5.48	6.6	....	......	....	69
5,817.00	225,344	102	271	4.41	2.6	6,943.83	20	284.9	573
16,970.15	890,853	269	276	5.25	1.9	15,588.91	21	716.0	3,198
5,313.84	194,203	119	136	3.72	2.7	5,512.53	10	234.5	572
1,634.84	25,647	34	63	4.01	6.4	1,008.58	1	24.8	111
1,718.51	35,836	44	67	3.22	4.8	904.97	2	50.6	177
827.89	39,834	28	123	2.56	2.1	539.52	4	26.2	231
5,129.94	149,680	131	97	3.34	3.4	5,254.19	23	185.1	607
5,666.15	278,719	126	181	3.69	2.0	21,355.32	24	997.9	796
3,561.05	95,798	83	99	3.66	3.7	3,372.69	6	114.2	309
2,522.17	55,001	53	89	4.08	4.6	1,692.06	2	60.0	202
1,059.15	36,748	32	97	2.76	2.9	948.32	1	38.2	111

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service: Revenue	Domestic service: Consumption	Domestic service: Number of consumers	Domestic service: Average monthly consumption	Domestic service: Average monthly bill	Domestic service: Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Gravenhurst....	G.B.	1,822	7	8,633.10	473,787	439	93	1.70	1.8
Hagersville......	Nia.	1,265	75	4,707.60	295,646	300	82	1.31	1.6
Harriston.......	Nia.	1,325	167	7,045.09	241,634	321	64	1.86	2.9
Harrow.........	Nia.	830	267	8,298.58	390,211	228	148	3.14	2.1
Hastings*.......	E.O.	709	15	2,488.86	35,514	160	......	.....	....
Havelock.......	E.O.	1,142	25	6,616.63	153,841	283	45	1.96	4.3
Hensall.........	Nia.	727	161	4,240.10	142,949	177	68	2.02	3.0
Highgate.......	Nia.	315	217	1,726.12	39,285	97	34	1.50	4.4
Holstein........	G.B.	P.V.	34	1,340.81	11,691	55	19	2.13	11.5
Humberstone....	Nia.	1,926	22	9,399.77	395,389	500	67	1.60	2.4
Jarvis..........	Nia.	479	81	1,839.80	43,913	105	37	1.55	4.2
Kemptville......	E.O.	1,227	62	6,882.24	196,597	305	54	1.90	3.5
Kirkfield........	G.B.	P.V.	35	803.01	13,498	27	42	2.48	5.9
Lakefield.......	E.O.	1,428	8	6,685.57	213,092	303	58	1.83	3.1
Lambeth........	Nia.	P.V.	130	3,841.48	119,585	110	91	3.52	3.2
Lanark.........	E.O.	592	21	2,431.42	49,142	133	32	1.57	4.9
Lancaster.......	E.O.	560	25	1,981.95	28,856	78	32	2.19	6.9
La Salle........	Nia.	574	248	8,604.20	313,355	206	129	3.55	2.7
Long Branch....	Nia.	4,016	73	21,399.24	1,107,660	1,045	88	1.71	1.9
London Twp....	Nia.	....	128	10,111.79	341,506	314	94	2.77	2.8
Lucan..........	Nia.	588	141	4,906.53	186,436	171	92	2.42	2.6
Lucknow.......	G.B.	1,115	68	7,036.08	127,851	270	41	2.23	5.4
Lynden.........	Nia.	P.V.	62	2,080.68	81,191	77	88	2.25	2.6
Madoc.........	E.O.	1,019	25	4,567.37	106,937	257	34	1.45	4.3
Markdale.......	G.B.	812	7	3,650.03	121,558	184	55	1.64	3.0
Markham.......	Nia.	931	114	5,964.01	199,703	270	64	1.90	3.0
Marmora.......	E.O.	1,013	20	3,503.36	72,891	193	32	1.53	4.8
Martintown.....	E.O.	P.V.	14	911.31	16,098	35	39	2.23	5.7
Maxville........	E.O.	742	26	3,240.62	44,278	140	26	1.92	7.3
Merlin..........	Nia.	P.V.	219	2,177.14	48,587	106	39	1.74	4.5
Milton.........	Nia.	1,775	88	11,157.44	455,941	460	83	2.03	2.4
Milverton.......	Nia.	981	139	5,277.04	252,364	228	96	2.00	2.1
Mitchell........	Nia.	1,593	135	10,399.31	499,893	434	95	1.97	2.1
Moorefield......	Nia.	P.V.	168	785.16	16,151	54	27	1.33	5.0
Mt. Brydges....	Nia.	P.V.	141	2,657.36	104,104	129	66	1.68	2.6
Mt. Forest......	G.B.	1,888	38	7,142.33	317,680	446	61	1.37	2.2
Neustadt.......	G.B.	460	40	2,239.29	33,312	97	20	1.95	9.6
Newbury.......	Nia.	291	223	1,183.08	25,995	60	36	1.64	4.6
New Hamburg...	Nia.	1,409	106	10,106.52	475,623	340	116	2.47	2.1
Niagara-on-the-Lake.........	Nia.	1,633	13	14,989.27	713,619	467	129	2.72	2.1

* Six months' operation.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
6,013.60	259,619	96	234	5.42	2.3	7,585.86	13	410.7	548
4,680.82	251,319	109	194	3.58	1.9	23,176.75	16	1,241.4	425
4,341.34	138,110	95	120	3.77	3.1	5,689.99	13	246.7	429
4,563.08	178,411	77	193	4.94	2.6	4,685.17	5	210.3	310
1,084.30	13,014	50	......	.....	.....	455.00	5	....	215
1,936.93	43,689	60	62	2.74	4.4	5,966.77	3	177.7	346
2,016.11	60,836	59	87	2.95	3.3	2,644.16	13	109.0	249
1,156.92	34,149	34	84	2.85	3.4	1,523.25	6	63.3	137
627.73	6,502	19	30	2.91	9.7	298.82	1	7.5	75
2,870.47	169,088	69	199	3.37	1.7	2,651.46	7	103.0	576
1,457.80	53,658	38	118	3.20	2.7	4,178.44	4	146.5	147
4,093.38	129,169	86	128	4.06	3.2	5,040.38	7	181.0	398
962.48	21,942	18	96	4.22	4.4	429.92	1	20.0	46
4,568.63	138,656	74	150	4.94	3.3	2,776.71	8	156.0	385
1,370.74	52,450	23	208	5.44	2.6	308.43	1	8.0	134
1,283.96	27,560	35	66	3.06	4.7	72.25	1	2.0	169
2,072.54	31,296	43	62	4.11	6.6	1,668.44	1	27.6	122
2,430.77	85,398	22	274	7.79	2.8	2,667.74	4	74.9	232
6,138.56	351,026	115	254	4.45	1.8	1,828.91	4	91.1	1,164
1,830.00	78,632	17	437	10.17	2.3	1,359.84	3	47.0	334
1,798.88	50,885	44	92	3.26	3.5	1,671.85	9	77.7	224
3,006.48	61,902	86	60	2.95	4.9	3,320.45	6	103.0	362
806.98	36,088	18	167	3.74	2.2	831.46	1	39.9	96
3,397.84	80,510	86	73	3.08	4.2	1,247.49	6	87.0	349
2,733.20	77,026	76	82	2.92	3.5	995.07	9	82.1	269
2,620.73	82,232	65	108	3.44	3.2	4,357.91	9	162.8	344
1,590.74	36,424	48	64	2.80	4.4	153.01	2	12.0	243
992.60	12,069	23	44	3.60	8.2	....	......	....	58
2,110.28	36,165	43	66	2.86	5.8	259.31	1	4.0	184
1,422.02	39,686	44	79	2.82	3.6	2,993.35	2	97.9	152
5,218.88	181,711	101	152	4.37	2.9	23,736.48	23	935.9	584
2,535.67	97,076	77	108	2.82	2.6	5,103.32	8	233.8	313
4,585.23	190,483	106	146	3.51	2.4	5,007.66	21	269.0	561
695.88	11,408	28	32	1.93	6.2	1,335.09	2	44.5	84
1,081.82	23,625	43	51	2.31	4.6	933.94	3	32.1	175
5,415.29	245,900	141	145	3.20	2.2	4,953.61	12	249.0	599
1,273.77	17,515	28	53	3.86	7.3	105.38	2	2.7	127
976.48	20,326	28	61	2.91	4.8	735.25	2	34.0	90
4,126.08	164,728	89	152	3.82	2.5	3,724.04	12	192.3	441
3,351.88	129,016	72	146	3.80	2.6	2,558.33	10	89.1	549

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population)

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Nipigon	T.B.	P.V.	14	2,238.32	56,929	125	40	1.59	4.0
Norwich	Nia.	1,101	110	7,292.19	398,479	352	95	1.74	1.8
Norwood	E.O.	756	10	4,916.11	116,315	211	46	1.95	4.2
Oil Springs	Nia.	445	226	1,556.30	40,252	70	48	1.85	3.9
Omemee	E.O.	489	15	2,386.27	63,427	127	42	1.57	3.8
Otterville	Nia.	P.V.	115	2,145.17	74,102	105	58	1.67	2.9
Paisley	G.B.	716	56	3,708.92	64,575	175	31	1.30	4.2
Palmerston	Nia.	1,758	161	10,748.18	505,884	400	105	2.24	2.1
Parkhill	Nia.	968	157	4,971.66	120,660	231	44	1.82	4.1
Plattsville	Nia.	P.V.	96	2,415.17	50,060	91	47	2.29	4.8
Point Edward	Nia.	1,232	209	5,985.38	212,191	298	60	1.70	2.8
Port Credit	Nia.	1,600	69	12,320.51	715,500	370	155	2.67	1.7
Port Dalhousie	Nia.	1,555	21	13,107.77	864,530	580	125	1.89	1.5
Port Dover	Nia.	1,625	108	7,408.24	242,356	458	47	1.44	3.1
Port Elgin ‡	G.B.	1,203	6	5,451.01	201,563	355	......	......	....
Port McNicoll	G.B.	825	21	2,903.37	76,819	179	37	1.42	3.9
Port Perry	G.B.	1,288	58	6,623.52	188,756	301	54	1.91	3.5
Port Rowan	Nia.	558	124	2,895.98	56,381	85	54	2.77	5.1
Port Stanley*	Nia.	693	146	11,425.91	461,740	575	67	1.67	2.5
Priceville	G.B.	P.V.	12	661.15	8,358	27	24	1.93	7.9
Princeton	Nia.	P.V.	96	2,260.98	59,241	84	60	2.30	3.8
Queenston	Nia.	P.V.	7	2,663.79	125,971	68	157	3.31	2.1
Richmond	E.O.	367	19	1,647.50	34,693	45	65	3.09	4.7
Richmond Hill	Nia.	1,197	103	6,968.21	307,301	332	79	1.79	2.3
Ridgetown	Nia.	1,981	211	9,562.03	405,360	547	62	1.46	2.4
Ripley	G.B.	410	69	2,859.52	43,733	120	32	2.09	6.5
Rockwood	Nia.	P.V.	87	3,134.96	142,449	145	84	1.84	2.2
Rodney	Nia.	690	163	3,140.19	96,808	195	42	1.37	3.3
Rosseau†	G.B.	230	37	957.07	9,083	48	......	......	....
Russell	E.O.	P.V.	58	2,682.04	43,331	106	35	2.14	6.2
St. Clair Beach	Nia.	115	247	2,325.44	91,966	49	153	3.88	2.5
St. George	Nia.	P.V.	82	2,733.14	133,169	130	85	1.75	2.1
St. Jacobs	Nia.	P.V.	102	3,221.42	179,130	107	141	2.53	1.8
Scarboro Twp	Nia.	....	87	85,225.70	3,917,352	4,210	80	1.75	2.2
Seaforth	Nia.	1,689	147	10,262.81	483,212	478	83	1.76	2.1
Shelburne	G.B.	1,138	31	5,511.37	193,300	289	56	1.59	2.8
Southampton §	G.B.	1,700	3	7,234.09	154,597	393	......	......	....
Springfield	Nia.	404	151	1,770.18	50,321	93	45	1.59	3.5
Stamford Twp	Nia.	....	2	52,154.47	3,131,028	1,633	164	2.73	1.7
Stayner	G.B.	949	53	3,998.71	171,659	232	63	1.47	2.3

‡Nine months' operation. §Ten months' operation.
*Summer consumers included. † Less than five months' operation.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
1,814.49	51,997	39	113	3.93	3.5	....	.....	....	164
2,633.84	109,793	77	113	2.71	2.4	2,896.15	7	97.2	436
2,796.72	46,512	64	60	3.60	6.0	3,064.22	3	111.0	278
1,034.42	25,810	28	74	2.97	4.0	7,460.78	27	206.9	125
1,219.79	29,926	41	61	2.48	4.1	303.03	6	18.1	174
1,581.99	49,978	42	102	3.22	3.2	692.75	3	25.1	150
2,681.92	72,878	51	108	3.99	3.7	1,325.23	4	34.5	230
5,427.90	227,696	97	190	4.52	2.4	6,444.66	9	359.1	506
2,862.53	65,880	75	73	3.18	4.3	1,535.44	5	70.5	311
897.70	19,248	24	64	2.99	4.7	801.85	1	24.1	116
1,751.49	59,259	45	118	3.48	3.0	17,221.19	12	795.6	355
5,051.02	253,660	75	286	5.69	1.9	1,747.14	5	90.2	450
2,099.69	111,069	46	193	3.65	1.9	4,219.28	11	229.0	637
4,805.31	158,509	128	102	3.08	3.0	5,398.07	11	217.6	597
3,219.82	71,032	83	......	.....	.....	3,115.14	9	148.0	447
437.30	13,196	24	48	1.58	3.3	....	.....	....	203
2,652.99	47,327	102	45	2.54	5.6	3,907.73	13	141.4	416
1,989.93	34,996	34	86	4.88	5.7	132.97	1	3.5	120
3,497.21	86,973	80	93	3.74	4.0	4,146.92	13	144.5	668
393.91	4,824	8	47	3.86	8.2	....	.....	....	35
629.46	17,213	17	84	3.08	3.7	3,100.61	3	108.0	104
236.68	5,511	7	71	3.03	4.3	813.42	1	25.0	76
1,568.52	31,178	25	108	5.45	5.0	....	.....	....	70
3,495.22	151,320	63	197	4.55	2.3	2,663.61	12	129.2	407
5,211.84	198,052	135	114	3.00	2.6	5,377.38	22	304.5	704
2,001.53	25,872	44	48	3.70	7.7	....	.....	....	164
1,322.63	50,835	33	128	3.34	2.6	335.21	1	12.6	179
2,739.18	93,221	75	104	3.04	2.9	1,669.73	5	83.7	275
487.83	4,490	21	......	.....	.....	....	.....	....	69
1,442.38	22,862	35	56	3.54	6.3	558.52	1	10.2	142
1,388.82	41,983	10	350	11.57	3.3	518.72	2	16.5	61
783.10	29,300	30	76	2.04	2.7	2,031.86	3	76.5	163
1,241.10	46,248	25	154	4.14	2.7	1,743.45	6	69.3	138
18,389.04	844,740	334	214	4.66	2.2	23,595.13	36	947.4	4,580
5,599.77	228,612	113	163	3.99	2.4	5,529.50	14	275.1	605
3,585.26	113,100	93	102	3.25	3.2	2,111.02	10	129.3	392
3,487.26	99,703	85	......	.....	.....	4,494.17	13	171.0	491
750.55	16,032	34	40	1.84	4.7	1,977.26	4	68.3	131
7,229.50	444,292	115	343	5.58	1.6	5,758.99	12	236.8	1,760
2,687.23	100,622	74	113	3.03	2.7	2,930.17	11	157.0	317

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr.	$ c.	cts.
Stirling	E.O.	822	19	5,822.08	306,580	270	96	1.81	1.9
Stouffville	Nia.	1,070	110	6,751.53	210,488	316	54	1.82	3.4
Sunderland	G.B.	P.V.	44	2,079.71	37,600	103	30	1.68	5.5
Sutton	Nia.	831	114	7,837.57	182,895	374	41	1.77	4.3
Tara	G.B.	455	34	2,937.84	56,732	126	39	2.01	5.2
Tavistock	Nia.	959	129	7,101.24	378,437	258	124	2.32	1.9
Teeswater	G.B.	835	58	4,470.92	81,488	208	33	1.80	5.5
Thamesford	Nia.	P.V.	136	2,369.93	94,097	117	59	1.69	2.5
Thamesville	Nia.	884	207	4,066.23	161,663	214	63	1.59	2.5
Thedford	Nia.	539	268	2,732.81	43,819	130	28	1.77	6.2
Thorndale	Nia.	P.V.	136	1,601.92	36,948	62	47	2.05	4.3
Thornton	G.B.	P.V.	58	1,290.02	17,534	51	29	2.11	7.4
Tilbury	Nia.	1,905	209	6,444.53	250,853	430	50	1.27	2.6
Toronto Twp	Nia.	....	67	53,851.71	3,112,451	1,732	153	2.64	1.7
Tottenham	G.B.	538	82	3,143.28	42,875	118	30	2.22	7.4
Trafalgar Twp., No. 1	Nia.	....	....	14,088.59	552,378	271	177	4.51	2.6
Trafalgar Twp., No. 2*	Nia.	....	....	4,187.75	141,236	110	109	3.23	2.9
Tweed	E.O.	1,206	41	6,675.53	136,841	238	48	3.34	7.0
Uxbridge	G.B.	1,482	60	7,488.43	255,806	341	64	1.89	2.9
Victoria Harbour	G.B.	950	17	2,675.12	80,717	157	43	1.43	3.3
Wardsville	Nia.	209	225	1,040.25	18,249	52	29	1.67	5.7
Warkworth	E.O.	P.V.	17	2,089.84	31,806	100	28	1.82	6.6
Waterdown	Nia.	917	57	6,268.64	312,156	220	120	2.41	2.0
Waterford	Nia.	1,091	94	7,162.68	434,335	316	116	1.91	1.6
Watford	Nia.	977	256	6,428.39	176,100	275	54	1.96	3.7
Waubaushene	G.B.	P.V.	12	1,947.47	73,458	123	51	1.28	2.5
Wellesley	Nia.	P.V.	111	2,818.32	94,196	126	64	1.91	3.0
Wellington	E.O.	900	22	4,467.61	169,151	281	52	1.36	2.6
West Lorne	Nia.	741	159	3,389.60	97,517	195	42	1.46	3.5
Wheatley	Nia.	748	279	4,523.52	122,715	184	67	2.05	3.7
Wiarton†	G.B.	1,880	33	5,983.06	103,530	353	......	.....	....
Williamsburg	E.O.	P.V.	28	1,893.40	73,148	55	111	2.87	2.6
Winchester	E.O.	970	38	5,837.42	272,018	270	83	1.79	2.1
Windermere	G.B.	124	22	2,134.94	23,610	44	45	4.09	9.0
Woodbridge	Nia.	737	85	5,414.99	256,816	214	96	2.02	2.1
Woodville	G.B.	403	40	2,082.21	54,299	103	44	1.70	3.8
Wyoming	Nia.	473	239	2,040.75	48,179	128	32	1.37	4.2
York, East, Twp.	Nia.	....	86	166,304.83	7,834,978	8,430	79	1.67	2.1
York, North, Twp	Nia.	....	84	82,076.06	3,493,066	2,539	122	2.88	2.4
Zurich	Nia.	....	168	3,131.39	85,442	119	60	2.19	3.7

*Trafalgar Twp. zone No. 2 population included in Zone No. 1. †Seven months' operation.

"D"—Concluded

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1931

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	Total number of consumers
$ c.	kw-hr.		kw-hr.	$ c.	cents	$ c.			
3,940.62	154,824	84	148	3.77	2.5	2,727.01	11	100.7	365
2,601.24	77,634	81	79	2.64	3.4	1,160.04	5	56.0	402
1,850.59	40,639	43	83	3.76	4.6	79.44	2	5.5	148
3,235.45	77,946	77	87	3.59	4.2	1,368.98	5	39.6	456
1,723.28	26,567	40	55	3.55	6.5	936.07	4	30.1	170
2,123.46	89.078	76	98	2.36	2.4	8,371.90	5	323.8	339
2,317.54	49,692	55	72	3.36	4.7	1,223.08	9	64.8	272
1,430.28	63,182	39	139	3.14	2.3	2,897.36	8	84.5	164
3,455.08	116,805	76	123	3.64	3.0	1,817.97	8	91.6	366
1,726.77	33,012	38	69	4.01	5.2	445.52	2	23.2	170
1,137.08	29,407	25	91	3.51	3.9	233.64	1	5.4	88
625.17	11,135	15	55	3.06	5.6	292.76	2	15.7	68
6,327.54	237,296	136	146	3.91	2.7	9,193.75	14	529.5	580
13,933.95	855,176	178	437	7.14	1.6	5,288.48	22	278.7	1,932
2,324.55	29,343	51	47	3.76	8.0	670.42	6	29.1	175
609.71	16,132	2	672	25.40	2.8	649.04	10	40.0	283
1,505.51	64,684	19	317	7.38	2.3	....	......	....	120
5,231.09	103,000	81	106	5.38	5.0	4,584.98	11	172.2	330
3,482.29	94,561	95	81	2.99	3.7	1,113.30	12	69.0	448
876.96	31,379	28	95	2.68	2.9	161.83	2	6.0	187
1,173.74	21,589	25	72	3.91	5.4	289.82	1	15.0	78
1,520.25	24,189	42	49	3.05	6.3	....	......	....	142
1,446.86	80,848	32	225	4.02	1.8	2,644.19	7	120.0	259
1,817.95	105,135	69	125	2.16	1.7	3,893.43	10	213.5	395
3,503.88	97,410	79	101	3.65	3.6	2,661.73	5	79.0	359
503.16	21,097	19	95	2.27	2.4	636.57	6	29.1	148
893.00	30,194	29	79	2.33	3.0	1,693.99	3	60.3	158
1,903.99	65,943	61	90	2.60	2.9	2,895.63	8	98.7	350
1,772.02	64,709	52	102	2.79	2.7	4,672.87	5	173.7	252
2,936.43	71,024	65	91	3.82	4.1	2,473.76	4	85.7	253
4,222.20	81,551	108	......	.....	.....	2,728.30	11	138.0	472
865.49	26,671	22	108	3.52	3.2	219.39	1	13.8	78
3,127.61	117,485	65	151	4.01	2.7	1,171.25	2	34.0	337
910.32	12,608	9	131	9.48	7.2	....	......	....	53
1,582.12	62,012	46	112	2.87	2.6	4,477.00	7	197.0	267
1,119.42	24,143	30	67	3.11	4.6	858.42	3	39.6	136
1,375.04	30,917	47	55	2.44	4.4	90.34	2	9.5	177
20,851.31	1,005,856	367	231	4.78	2.1	41,722.65	36	1,873.0	8,833
11,795.05	416,798	208	174	4.94	2.8	24,783.47	36	989.0	2,783
1,982.98	47,936	46	83	3.44	4.2	....	......	....	165

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Urban Municipalities Served by the Hydro-Electric Power Commission for the Year 1931

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, which is an important factor in determining the rates to consumers, is also stated.

Cost of Power to Municipalities

The figures of the first column in the table represented the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

From the commencement of its operations, the Commission introduced in the municipalities which it serves, scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

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*Except townships served as parts of rural power districts, for which consult latter part of Section III.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where the load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Acton	32.23	33–66	60	2.2	1.1	0.83	10
Agincourt	37.30	33–66	50	4.	2.	1.11	10
Ailsa Craig	45.36	33–66	55	3.5	1.5	0.83	10
Alexandria	62.03	33–66	60	5	2	1.11	10
Alliston	56.93	33–66	40	4.5	2	1.39	10
Alvinston	83.27	33–66	60	6	2	2.22	10
Amherstburg	35.95	33–66	55	3	1.5	0.83	10
Ancaster twp.	29.37	33–66	55	3	1.5	0.83	10
Apple Hill	56.30	33–66	60	6	2	1.66	10
Arkona	72.31	33–66	55	5	2	1.66	10
Arthur	74.98	33–66	40	6	2	1.67	10
Athens	48.61	33–66	40	6	2	2.78	10
Aylmer	34.39	33–66	60	2.4	1.2	0.83	10
Ayr	31.35	33–66	60	2.5	1.25	1.11	10
Baden	31.05	33–66	60	2.5	1.25	0.83	10
Barrie	35.44	33–66	60	2	1	0.83	10
Beachville	30.73	33–66	55	3	1.5	0.83	10
Beaverton	42.12	33–66	60	2.5	1.25	1.11	10
Beeton	69.27	33–66	35	7	2	1.67	10
Belle River	36.98	33–66	55	3.5	1.5	1.11	10
Belleville	31.51	33–66	60	2.5	1.25	0.83	10
Blenheim	37.99	33–66	60	2.5	1.25	0.83	10
Bloomfield	56.97	33–66	50	3	1.5	0.83	10
Blyth	56.12	33–66	50	4	2	1.66	10
Bolton	44.80	33–66	55	3	1.5	1.11	10
Bothwell	44.92	33–66	60	2.5	1.25	0.83	10
Bradford	68.59	33–66	35	5.5	2	1.67	10
Brampton	28.14	33–66	60	2	1	0.83	10
Brantford	25.96	33–66	60	2	1	0.83	10
Brantford twp.	28.90	33–66	60	2.5	1.25	1.11	10
Brechin	56.97	33–66	45	5	2	1.67	10
Bridgeport	33.99	33–66	55	3	1.5	0.83	10
Brigden	61.59	33–66	60	4	2	1.38	10
Brighton	40.51	33–66	60	5	2	1.11	10
Brockville	29.46	33–66	50	2	1	0.83	10
Brussels	52.10	33–66	50	4.5	2	1.66	10
Burford	31.62	33–66	60	2.5	1.25	1.11	10
Burgessville	43.92	33–66	50	4	2	1.11	10
Caledonia	28.89	33–66	60	2.5	1.25	0.83	10
Campbellville	59.37	33–66	40	6	2	2.22	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33	min. 3.00	......	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
7.5	5	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	6	1	2.78	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	2.4	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.5	0.75	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.5	1	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	7	1	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.5	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	3	1	0.83	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	4	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.5	0.75	0.83	10	38.00	1.00	4	2.6	0.33	....	......	10
5	5.5	1	1.67	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
	*3.5 **1.75	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	4	0.75	1.38	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	......	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	6	1	2.22	10	50.00	1.00	5.7	3.8	0.33	....	......	10

*First 30 hours per kw-hr.
**Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Cannington	44.11	33–66	55	3	1.5	1.11	10
Cardinal	35.23	33–66	50	3.5	2	1.39	10
Carleton Place	31.07	33–66	50	4	2	0.83	10
Cayuga	44.54	33–66	45	5	2	1.66	10
Chatham	28.54	33–66	60	2.5	1.11	0.83	10
Chatsworth	44.82	33–66	40	5.5	2	1.67	10
Chesley	37.30	33–66	55	3	1.5	1.11	10
Chesterville	42.64	33–66	50	3	1.5	0.83	10
Chippawa	23.77	33–66	60	2.5	1.25	1.11	10
Clifford	61.38	33–66	50	4.5	2	1.66	10
Clinton	36.10	33–66	60	2.5	1.5	1.11	10
Coldwater	38.15	33–66	55	2.5	1.25	1.11	10
Collingwood	40.30	33–66	55	2.5	1	0.83	10
Comber	48.99	33–66	50	4	2	1.38	10
Cookstown	55.72	33–66	35	7	2	1.67	10
Cottam	40.04	33–66	50	4	2	1.66	10
Courtright	64.47	33–66	50	6	2	2.22	10
Creemore	55.53	33–66	55	3	1.5	0.83	10
Dashwood	49.13	33–66	45	5	2	1.38	10
Delaware	36.69	33–66	50	4	2	1.11	10
Deseronto	48.78	33–33	60	6.5	2	1.11	10
Dorchester	35.93	33–66	55	3	1.5	0.83	10
Drayton	61.08	33–66	55	3.5	1.5	1.11	10
Dresden	42.35	33–66	60	2.5	1.25	1.11	10
Drumbo	40.96	33–66	50	4	1.5	1.11	10
Dublin	54.58	33–66	50	6	2	1.67	10
Dundalk	41.04	33–66	55	3	1.5	1.11	10
Dundas	24.88	33–66	60	2	1	0.83	10
Dunnville	31.99	33–66	60	2.5	1.5	0.83	10
Durham	40.96	33–66	50	2.5	1.25	0.83	10
Dutton	35.65	33–66	60	2.4	1.2	0.83	10
East Windsor	30.24	33–66	60	2.5	1	0.83	10
East York twp.	30.29	33–66	60	2.2	1.2	0.83	10
Elmira	32.19	33–66	60	2.5	1.25	0.83	10
Elmvale	42.43	33–66	55	3	1.5	0.83	10
Elmwood	52.56	33–66	45	5	2	1.39	10
Elora	34.15	33–66	55	3	1.5	1.11	10
Embro	42.17	33–66	50	4	2	1.67	10
Erieau	55.60	33–66	45	5	2	1.67	10
Erie Beach	64.19	33–66	50	7	2	1.94	10

NOTE.—Domestic Service Charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.94	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	......	10
5	4	1	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	5.5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	0.75	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	4.5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	4	1	1.38	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	4	1	1.66	10	43.00	1.00	4.7	3.1	0.33	min. 2.22	......	10
7.5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	3	1	0.83	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	6.5	2	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3	1	0.83	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	4	1	1.11	10	44.00	1.00	4.8	3.2	0.33	....	......	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	2.5	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.4	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.67	10	42.00	1.00	4.6	3	0.33	min. 2.22	......	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	......	10
5	7	1	1.94	10	60.00	1.00	7.2	4.8	0.33	....	......	10

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Essex	32.67	33-66	55	3	1.25	0.83	10
Etobicoke twp.	26.90	33-66	60	2.2	1.2	0.83	10
Exeter	36.00	33-66	55	3	1.5	0.83	10
Fergus	34.54	33-66	55	3	1.5	1.11	10
Finch	65 11	33-66	40	6	2	1.94	10
Flesherton	44.51	33-66	55	3.5	1.5	1.11	10
Fonthill	33.27	33-66	55	3	1.5	1.38	10
Forest	44.86	33-66	55	3.5	1.5	1.11	10
Fort William	23.60	33-66	50	2.5	1	0.83	10
Galt	25.87	33-66	60	2.5	1.25	0.83	10
Gamebridge	.....	33-66	45	5	2	1.67	10
Georgetown	34.83	33-66	60	2	1	0.83	10
Glencoe	56.38	33.66	55	3.5	2	1.11	10
Glen Williams	.....	33-66	60	3	1.5	0.83	10
Goderich	40.27	33-66	55	3	1.5	0.83	10
Grand Valley	58.42	33-66	45	5	2	1.39	10
Granton	48.27	33-66	55	3	1.5	1.11	10
Gravenhurst	23.06	33-66	60	2	1	0.83	10
Guelph	26.20	33-33	60	2	1	0.83	10
Hagersville	29.49	33-66	60	2	1	0.83	10
Hamilton	23.68	33-66	60	2	1	0.83	10
Hanover	34.57	33-66	55	3	1.5	0.83	10
Harriston	44.93	33-66	55	3.5	1.5	1.11	10
Harrow	37.50	33-66	55	3	1.5	0.83	10
Hastings	69.28	33-66	60	6	2	2.78	10
Havelock	44.75	33-66	50	5	2	0.83	10
Hensall	47.22	33-66	55	3.5	1.5	1.11	10
Hespeler	26.88	33-66	60	2.5	1.25	0.83	10
Highgate	45.20	33-66	50	4	2	1.11	10
Holstein	115.28	33-66	60	9	5	1.67	10
Hornings Mills	.....	33-66	30	8	2	1.67	10
Humberstone	27.74	33-66	60	2.5	1.25	0.83	10
Huntsville	26.17	33-66	55	2.5	1.25	0.83	10
Ingersoll	27.08	33-66	60	2	1.2	0.83	10
Jarvis	35.89	33-66	50	4	2	1.11	10
Kemptville	40.41	33-66	50	3.5	2	0.83	10
Kincardine	54.84	33-66	40	4	2	1.11	10
Kingston	24.00-36.00	33-66	50	2	1	0.83	10
Kingsville	36.44	33-66	55	3	1.25	0.83	10
Kirkfield	57.51	33-66	40	6	2	2.22	10

NOTE.—Domestic Service Charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3	1.5	1.11	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	6	1	2.50	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	0.75	1.38	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	....	......	10
5	2.5	1	0.83	10	22.00	1.00	1.75	1	0.1	....	......	10
5	2.5	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3.5	1	1.11	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
......	*3.5 **1.75	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133	....	10	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	3.5	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3	1	0.83	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	6	2	2.78	10	51.00	1.00	5.9	3.9	0.33	....	......	10
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	......	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	9	5	1.67	10	74.00	1.00	9.3	6.2	0.33	....	......	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	....	......	10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2	0.75	0.83	10	20.00	1.00	1.5	1.0	0.33	....	10	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	6	1	2.22	10	45.00	1.00	4.9	3.3	0.33	....	......	10

*First 30 hours per kw-hr.
**Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Kitchener	25.21	33–66	60	2	1.2	0.83	10
Lakefield	40.07	33–66	50	3	2	0.83	10
Lambeth	38.36	33–66	50	4	2	1.38	10
Lanark	46.44	33–66	50	4	2	0.83	10
Lancaster	74.60	33–66	60	6	2	1.94	10
LaSalle	33.37	33–66	50	4	2	1.11	10
Leamington	37.15	33–66	55	2.6	1.25	0.83	10
Leaside	.....	* 3	..	** 2	1.5	0.83	10
Lindsay	39.63	33–66	40	3	1.5	0.83	10
Listowel	35.62	33–66	60	2.5	1.25	1.11	10
London	24.88	33–66	60	2	1	0.83	10
London twp.	31.21	33–66	55	3	1.5	1.11	10
Long Branch	27.85	33–66	60	2.2	1.2	0.83	10
Lucan	34.14	33–66	55	3.5	1.5	1.11	10
Lucknow	59.63	33–66	45	4.5	2	1.67	10
Lynden	37.83	33–66	55	3.5	1.5	1.38	10
Madoc	46.85	33–66	50	4	2	0.83	10
Markdale	38.88	33–66	55	3	1.5	1.11	10
Markham	39.08	33–66	55	3.5	1.5	1.11	10
Marmora	46.75	33–66	60	5	2	1.11	10
Martintown	52.25	33–66	60	6	2	1.66	10
Maxville	60.58	33–66	60	6	2	1.66	10
Meaford	45.78	33–66	55	3	1.5	0.83	10
Merlin	44.34	33–66	50	4.5	2	1.11	10
Merritton	22.19	33–66	60	2	1	0.83	10
Midland	34.72	33–66	60	2	1	0.83	10
Milton	33.27	33–66	55	3	1.5	0.83	10
Milverton	33.08	33–66	60	2.5	1.25	1.11	10
Mimico	24.86	33–66	60	2.2	1.2	0.83	10
Mitchell	31.24	33–33	60	2.5	1.5	0.83	10
Moorefield	66.33	33–66	50	4	2	1.11	10
Mount Brydges	37.19	33.66	55	3	1.5	1.11	10
Mount Forest	47.69	33–66	60	2.25	1.25	0.83	10
Napanee	34.71	33–33	60	4.5	2	0.83	10
Neustadt	93.20	33.66	60	8	2	1.67	10
Newbury	51.97	33–66	45	5	2	1.38	10
New Hamburg	33.53	33–66	60	2.5	1.5	0.83	10
New Toronto	27.93	33–66	60	2	1.1	0.83	10
Niagara Falls	19.96	33–66	60	2	1	0.83	10 & 10
Niagara-on-the-Lake	25.97	33–66	60	2.5	1.25	0.83 to 1.11	10

NOTE.—Domestic Service Charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	....	......	10
5	4	1	1.11	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	6	1	2.78	10	69.00	1.00	8.6	5.7	0.33	....	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.6	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
......	R 4 & 2	1	0.83	10	23.28	1.00	1.8	1.1	0.33	....	......	10
5	3	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	0.60	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	1	1.67	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	3.5	1.5	0.83	10	32.00	1.00	3.1	2.0	0.33	....	......	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	1	1.11	10	37.00	1.00	3.8	2.5	0.33	min. 2.22 max. 2.67	......	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	min. 2.06	10	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	3	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.2	0.60	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	0.75	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.25	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	1	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	8	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min. 2.00	......	10

R First 70 hours per kw-hr.
Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Nipigon twp.	26.72	33–66	55	3.5	1.25	1.39	10
North York twp.	30.39	33–66	55	3	1.5	1.11	10
Norwich	33.19	33–66	60	2.5	1.25	0.83	10
Norwood	38.35	33–66	50	5	2	1.11	10
Oil Springs	44.15	33–66	50	4	2	1.11	10
Omemee	.....	33–66	60	4	2	1.11	10
Orangeville	45.15	33–66	60	2.5	1.25	1.11	10
Oshawa	36.17	33–66	40	3.5	1.5	0.83	10
Ottawa	13.37	33–66	60 60	2 1	0.5	0.83	10
Otterville	39.62	33–66	55	3	1.5	1.11	10
Owen Sound	35.10	33.66	60	2	1	0.83	10
Paisley	51.09	33–66	45	5	2	1.67	10
Palmerston	39.60	33–66	60	2.5	1.25	1.11	10
Paris	26.71	33–66	60	2	1.25	0.83	10
Parkhill	57.95	33–66	50	4.5	2	1.38	10
Penetang	39.91	33–66	60	2	1	0.83	10
Perth	29.44	33–66	55	3	1.5	0.83	10
Peterboro	29.26	33.66	50	2.5	1.25	0.83	10
Petrolia	38.71	33.66	60	2.5	1.25	0.83	10
Picton	47.36	33–66	60	2.5	1.25	0.83	10
Plattsville	52.92	33–66	45	5	2	1.66	10
Point Edward	35.62	33–66	55	3	1.5	0.83	10
Port Arthur	23.11	33–66	30	2	1	0.83	10 & 10
Port Colborne	27.86	33–66	60	2.5	1.25	0.83	10
Port Credit	31.46	33–66	60	2.2	1.2	0.83	10
Port Dalhousie	28.56	33–66	60	2.2	1.2	0.83	10
Port Dover	39.02	33–66	50	3	1.5	1.11	10
Port Elgin	43.11	33–66	40	4	2	1.39	10
Port Hope	36.41	33–66	60	3.5	2	0.83	10
Port McNicoll	38.10	33–66	50	3.5	1.5	0.83	10
Port Perry	50.15	33–66	50	3.5	1.5	1.11	10
Port Rowan	61.56	33–66	60	6	2	1.66	10
Port Stanley	38.34	33–66	55	3	1.5	0.83	10
Prescott	28.97	33–66	60	2	1	0.83	10
Preston	25.53	33–66	60	2.5	1.25	0.83	10
Priceville	77.75	33–66	60	8	2	1.67	10
Princeton	45.44	33–66	50	3.5	2	1.66	10
Queenston	27.00	33–66	65	3	1.5	1.38	10
Richmond	49.11	33–66	35	6	2	1.95	10
Richmond Hill	33.76	33–66	60	2.5	1.25	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	5	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	4	1	1.11	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	....	......	10
5	2.5	1.25	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	1	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
......	*5 **2.2	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	....	15	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	5	1	1.67	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	2.5	1	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4.5	1	1.38	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	2	1	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	....	......	10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min. 2.00	......	10
5	3	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	2	0.5	0.83	10 & 10	22.00	1.00	1.75	1	0.1	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2.2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min. 1.11	......	10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.66	10	42.00	1.00	4.6	3	0.33	....	......	10
5	3	1	1.38	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	6	1	2.22	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10

*First 30 hours per kw-hr.
**Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Ridgetown	37.48	33–66	60	2.4	1.25	0.83	10
Ripley	77.01	33–66	50	7	2	1.67	10
Riverside	31.95	33–66	55	3	1.25	0.83	10
Rockwood	38.96	33–66	60	2.5	1.25	1.11	10
Rodney	44.62	33–66	55	3	1.5	0.83	10
Rosseau	151.88	33 ‡	..	8	2	2.22‡	10
Russell	60.41	33–66	50	6	2	1.66	10
St. Catharines	22.14	33–66	30 & 60	2	1	0.83	10
St. Clair Beach	35.73	33–66	55	3.5	1.5	1.66	10
St. George	38.74	33–66	60	2	1	0.83	10
St. Jacobs	31.27	33–66	60	2.5	1.25	1.11	10
St. Marys	31.48	33–66	60	2.5	1.5	1.11	10
St. Thomas	26.50	33–66	60	2	1	0.83	10
Sandwich	30.77	33–66	60	2.5	1	0.83	10
Sarnia	31.15	33–66	60	2.4	1.1	0.83	10
Scarboro twp.	29.13	33–33	60	2.6	1.3	0.83	10
Seaforth	33.35	33–66	60	2.5	1.25	0.83	10
Shelburne	45.45	33–66	50	3	1.5	1.11	10
Simcoe	28.87	33–66	60	2	1.25	0.83	10
Smiths Falls	27.09	33–66	55	3	1.5	0.83	10
Southampton	38.78	33–66	40	4	2	1.39	10
Springfield	47.29	33–66	55	3.5	1.5	1.11	10
Stamford twp.	20.49	33–66	60	2	1.2	0.83	10
Stayner	41.70	33–66	55	2.5	1.25	0.83	10
Stirling	30.06	33–66	45	2.5	1.25	0.83	10
Stouffville	43.62	33–66	55	3.5	1.5	1.11	10
Stratford	27.05	33–66	60	2.1	1.25	0.83	10
Strathroy	31.10	33–66	60	2.5	1.25	0.83	10
Sunderland	60.32	33–66	45	5	2	1.39	10
Sutton	56.52	33–66	50	4.5	2	1.11	10
Tara	48.41	33–66	35	5	2	1.39	10
Tavistock	33.39	33–66	60	2.5	1.25	0.83	10
Tecumseh	34.84	33–66	55	3.5	1.5	1.11	10
Teeswater	58 36	33–66	60	5	2	1.67	10
Thamesford	37.80	33–66	60	2.5	1.5	1.11	10
Thamesville	37.48	33–66	55	3	1.25	0.83	10
Thedford	69.42	33–66	50	5	2	1.38	10
Thorndale	67.63	33–66	50	4	2	1.38	10
Thornton	78.28	33–66	60	8	2	1.67	10
Thorold	24.40	33–66	60	2	1	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

‡According to consumers' demand.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.4	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	....	......	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	6	1	2.22	10	56.00	1.00	6.6	4.4	0.33	....	......	10
......	*3.5 **1.75	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	....	25	10
5	3.5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.4	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	42.00	1.00	4.6	3	0.33	min. 2.22	......	10
5	2.25	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.5	1	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.5	1	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	1	1.11	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	2.1	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	5	1	1.39	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3.5	0.8	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.5	0.75	1.11	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.38	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	min. 3.33	......	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.3	†0.33 0.295	....	25	10

*First 30 hours per kw-hr.
**Next 70 hours per kw-hr.

†Next 260 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1931, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Tilbury	37.23	33–66	60	2.5	1.25	0.83	10
Tillsonburg	32.17	33–66	60	2	1.2	0.83	10
Toronto	24.63	* 3	..	**2	1	0.83	10
Toronto twp.	30.77	33–66	55	2.8	1.4	1.11	10
Tottenham	87.99	33–66	30	7	2	1.67	10
Trafalgar twp., Area No. 1	.....	55	60	3.5	2	1.11	10
Trafalgar twp., Area No. 2	.....	80–1.11	55	3.5	2	1.67	10
Tweed	55.88	33–33	60	6	2	1.11	10
Uxbridge	51.87	33–66	50	3.5	1.5	1.11	10
Victoria Harbour	45 82	33–66	55	3	1.5	1.11	10
Walkerton	37.86	33–66	50	3.5	2	1.11	10
Walkerville	26.98	33–66	60	2.5	1	0.83	10
Wallaceburg	35.48	33–66	60	2.4	1.1	0.83	10
Wardsville	55.79	33–66	40	6	2	1.66	10
Warkworth	44.77	33–66	50	5	2	1.55	10
Waterdown	32.43	33–66	60	2.5	1.25	0.83	10
Waterford	29.90	33–66	60	2	1	0.83	10
Waterloo	25.83	33–66	60	2	1.25	0.83	10
Watford	50.22	33–66	50	4	2	1.11	10
Waubaushene	44.02	33–66	55	2.5	1.25	1.11	10
Welland	22.47	33–66	60	2.2	1.1	0.83	10
Wellesley	43.50	33–66	50	3.5	1.5	1.11	10
Wellington	44.13	33–66	50	2.5	1.25	0.83	10
West Lorne	38.04	33–66	55	3	2	1.11	10
Weston	25.52	33–66	60	2	1	0.83	10
Wheatley	49.72	33–66	50	4	2	1.39	10
Whitby	35.25	33–66	60	3	1.25	0.94	20
Wiarton	58.00	33–66	40	6	2	2.22	10
Williamsburg	40.73	33–66	60	3	2	1.39	10
Winchester	38.54	33–66	60	2.5	1.25	0.83	10
Windermere	100.73	33– ‡	..	8	2	2.22‡	10
Windsor	26.69	33–66	60	2.5	1	0.83	10
Wingham	58.55	33–66	45	4	2	1.11	10
Woodbridge	35.17	33–66	60	2.5	1.25	0.83	10
Woodstock	25.37	33–66	60	2	1.2	0.83	10
Woodville	55.75	33–66	50	4	2	1.11	10
Wyoming	52.22	33–66	50	4.5	2	1.11	10
York twp. (including Swansea and Forest Hill)	.....	33–66	60	2	1.3	0.83	10
Zurich	58.24	33–66	50	4	2	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

‡According to consumers demand.

"E"—Concluded

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service								
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
......	R 4 & 2	1	0.83	10	......	D.C. a	2.5	1.25	0.60	....	......	10
						A.C. b	1.5	0.75	0.33	....	......	10
5	2.8	0.75	1.11	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	7	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
......	†8 ††4	1	1.11	10	37.00	1.00	3.5	2.3	1	....	......	10
10	3.5	2	1.67	10	38.00	1.00	3.5	2.3	1.5	....	......	10
5	6	2	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3.5	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	5	1	1.55	10	44.50	1.00	4.9	3.3	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	4	1	1.11	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2.2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5.6	3	1	0.94	20	25.00	1.00	2	1.3	0.33			10
5	6	1	2.22	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.39	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	2.5	1	0.83	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	......	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2	0.75	0.83	10	22.00	1.00	1.6	0.9	0 33	....	......	10
5	4	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	......	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

R First 70 hours per kw-hr., 4 cents.
Next 70 hours per kw-hr., 2 cents.

a D.C. Service charge $1.35 per h.p. for first 10 h.p., plus $1.00 per h.p. for additional h.p.
b A.C. Service charge $1.25 per h.p. for first 10 h.p., plus $1.00 per h.p. for additional h.p.

APPENDIX I

ACTS

CHAPTER 13

An Act to amend The Power Commission Act.

Assented to April 2nd, 1931.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1931*. Short title.

2. Section 1 of *The Power Commission Act* is amended by adding thereto the following clauses: Rev. Stat., c. 57, s. 1, amended.

(*d*) "Land" shall mean real property of whatsoever nature or kind, and shall include tenements, hereditaments and appurtenances, and any estate, term, easement, right or interest in, to, over, under or affecting land. "Land."

(*e*) "Owner" shall include mortgagee, lessee, tenant, occupant, or any person entitled to a limited estate or interest, and a guardian, committee, executor, administrator or trustee in whom land or any property or interest therein is vested. "Owner."

3. Sections 20 to 30 of *The Power Commission Act* are repealed and the following substituted therefor: Rev. Stat., c. 57, ss. 20 to 30 repealed.

20.—(1) The Lieutenant-Governor in Council may authorize the Commission at any time and from time to time, to acquire by purchase, lease, or in any other manner, or without the consent of the owner thereof to enter upon, take possession of, expropriate and use, any land, lake, river, stream, or other body of water or watercourse, and temporarily or permanently to divert or alter the boundaries or course of any lake, river, stream or other body of water or watercourse, or raise or lower the level of the same or flood or overflow any land. *New*.

(2) In particular, but without limiting the generality of subsection 1 hereof, the Lieutenant-Governor in Council, upon the recommendation of the Commission, may authorize the Commission to Power may be given to Commission.

To acquire lands, water powers and works.

(*a*) acquire by purchase, lease or otherwise, or without the consent of the owner thereof or of any person interested therein, enter upon, take possession of, expropriate and use, the land, waters, water privileges, water powers and works, of any person owning, holding under lease or otherwise, or developing, operating or using the same for generating, or adapted for generating electrical power or energy or for the transmission thereof in Ontario; and develop and use the same for any of the purposes of this Act; R.S.O. 1927, c. 57, s. 20 (1), cl. *a*;

To acquire Dominion Power and Transmission Company Limited.

(*aa*) acquire by purchase the whole or any part of the property, assets and undertaking of Dominion Power and Transmission Company Limited, including shares held or owned by said company in any other company or companies of any kind or nature whatsoever, and to acquire the whole or any part of the properties, assets and undertakings of such other company or companies and to maintain and operate any property or properties so acquired; 1930, c. 12, s. 4, *part;*

To acquire and construct works for production of electricity.

(*b*) acquire by purchase, lease or otherwise, and construct, maintain and operate, works for the production of electrical power or energy by the use of coal, oil or any other means whatsoever; R.S.O. 1927, c. 57, s. 20 (1) cl. *b*.

Works on inter-provincial boundaries.

(*bb*) acquire by purchase, lease or otherwise, lands, waters, water privileges, water powers and works upon or adjacent to the boundary line between Ontario and any other province and situate in Ontario or in such other province, or partly in one and partly in the other of them, and erect, construct, maintain and operate upon any lands so acquired, works for the production and transmission of electrical power or energy, and enter into agreements with the Crown as representing such other province, or with any commission or department of the Government of such other province, or with any corporation or person interested in or affected by such works as to the terms and conditions upon which such works shall be carried on and any rights so acquired be exercised.

Acquiring shares in companies operating on such boundaries.

(*bbb*) acquire by purchase in the open market or otherwise shares or stock of any company owning or controlling any such lands, waters, water privileges, water powers or works; 1930, c. 12, s. 4; *part;*

To acquire plant for transmission of power.

(*c*) construct, maintain and operate, and acquire by purchase, lease or otherwise, or, without the consent of the owner thereof or of any person interested therein, enter upon, take possession of, expropriate and use, all erections, machinery, plant and other works and appliances for the transmission, supply and distribution of electrical power or energy; and conduct, store, transmit and supply electrical power or energy and steam for the purposes of this Act, and, with lines of wires, poles, conduits, pipes, motors or other conductors or devices, receive, conduct, convey, transmit, distribute, supply or furnish such electrical power or energy and steam to or from any person at any place through, over, under, along, upon or across any land, public highway or public place, stream, water, watercourse, bridge, viaduct or railway, and through, over or under the land of any person;

(*d*) contract with any person generating, transmitting or distributing electrical power or energy, or proposing so to do, to supply electrical power or energy to the Commission; and require any person generating, transmitting or distributing electrical power or energy to supply so much thereof as the Commission may require;

To contract for supply of power to Commission.

(*e*) enter upon, take and use, without the consent of the owner thereof, any land upon which any water power or privilege is situate, or any lake, river, stream or other body of water which, in the opinion of the Commission, is capable of improvement or development for the purpose of providing water power, and construct such dams, sluices, canals, raceways and other works as may be deemed proper or expedient for the said purposes, and flood and overflow any land to the extent to which the Commission may deem necessary for the purpose of providing storage of the water or for any other purpose in connection with such works, and contract with any municipal corporation, company or individual for the use of any of the improvements or works so made, on such terms and conditions as may be agreed on;

To flood lands and improve water powers.

(*f*) enter upon, take and use, without the consent of the owner thereof, any land which may, in the opinion of the Commission, be necessary for the full enjoyment and exercise of any water right, water privilege or improvement undertaken by the Commission or by any municipal corporation or for the relief of the municipal corporation from liability for damages for the flooding or overflowing of such lands; but subject to the provisions of subsections 1 and 2 of section 30, the proceedings taken under this paragraph shall be at the sole expense of the municipal corporation, and the Commission may convey the lands so acquired to such corporation or make such other disposition thereof with the consent of such corporation as may be deemed expedient;

To acquire flooded lands on behalf of municipality.

(*g*) acquire by purchase or expropriate any plant, machinery, appliances, wire, poles and other equipment, and the land occupied by or used in connection therewith or any part thereof, used or intended for the distribu-

To acquire distributing plant.

tion of electrical power or energy in a municipality, the corporation of which has entered into an agreement with the Commission for the supply of electrical power or energy, and contract for the sale and transfer to such municipal corporation of such plant, equipment and land upon such terms and for such price, not being less than the price paid by the Commission, with the expenses in connection with such purchase or expropriation added thereto, as may be agreed upon; but if part only of the property is taken the damage done to the property by the severance shall be taken into consideration in determining the compensation; R.S.O. 1927, c. 57, s. 20 (1), cls. *c-g*.

Purchasing shares in companies.

(*gg*) acquire from time to time by purchase in the open market or otherwise, shares or stock in or the securities of any incorporated company carrying on the business of developing, distributing or transmitting electrical power or energy and for the purposes of this Act the acquisition of such shares, or stock, or securities shall be an investment in works; 1930, c. 12, s. 5;

To acquire stock in development companies.

(*h*) acquire by purchase or otherwise on any terms and hold shares in any incorporated company carrying on the business of developing, supplying or transmitting electrical power or energy; and in connection with any such acquisition enter into any covenants and agreements, and pay for any such shares either in cash or in bonds, debentures or other securities of the Commission, and guarantee, or covenant or agree for or in respect of the payment or performance of any bonds, debentures, securities, contracts or obligations of any company shares in which are so acquired, or of any company shares in which are held by any company in which shares are so acquired; and for the purposes of this Act the acquisition of shares of such companies shall be deemed to be an investment in works.

To lease or operate works of others.

(*i*) lease or operate the works for the generation, transmission, distribution or use of electrical energy of any person, firm or corporation on such terms as the Commission may arrange with the owner;

To issue bonds, etc., for above purposes.

(*j*) issue bonds, debentures or other securities of the Commission for any of the purposes set out in this section, in such form and containing such terms and at such rate of interest and payable in such manner and at such time or times as the Lieutenant-Governor in council may determine. R.S.O. 1927, c. 57, s. 20, subs. 1, cls. *h-j*.

The Commission to have powers of Minister of Public Works.

(3) In relation to all matters authorized by the Lieutenant-Governor in Council under any of the provisions of this section, the Commission shall have, and may exercise and enjoy, in addition to the powers conferred by this or any other Act, all the powers conferred upon the Minister of

Public Works in relation to a public work by *The Public Works Act*, and in the application of this section, where the words "The Minister," "The Department" or "The Crown" appear in the said Act, they shall, where the context permits mean and include the Commission.

Mode of perfecting title.

(4) Upon the deposit in the proper Registry or Land Titles Office of a plan and description of the land required by the Commission, signed by the Secretary or by an Ontario Land Surveyor, the land so described shall thereupon become and be vested in the Commission.

Procedure.

(5) Except as otherwise provided in this Act the Commission shall in the exercise of its compulsory powers, authorized by this section and section 26, proceed in the manner provided by *The Public Works Act*, where the Minister of Public Works takes land or property for the use of Ontario, and all the provisions of that Act with respect to the fixing, payment and application of compensation shall *mutatis mutandis* apply.

Powers of Board.

(6) Where the Commission elects to have the compensation determined by the Ontario Railway and Municipal Board, under the provisions of section 28 of *The Public Works Act*, the Board shall in addition to the powers conferred upon it by the said section 28 of *The Public Works Act*, and by *The Railway and Municipal Board Act*, have the power, upon the application of the Commission or the owner, to direct the filing and serving of pleadings, and particulars thereof, and to direct discovery and production as in actions in the Supreme Court, and in accordance with the rules of practice in that behalf.

(7) The Lieutenant-Governor in Council may direct that any authorization to the Commission heretofore or hereafter given shall be retroactive, when the same shall be deemed to have taken effect from the time so fixed.

(8) No act or proceeding of the Commission pursuant to any authorization of the Lieutenant-Governor in Council under this section shall be restrained by injunction or other process or proceeding in any court. *New.*

21.—(1) Notwithstanding any thing in this or any other Act, whenever the Commission has been authorized by the Lieutenant-Governor in Council to exercise any of the powers set out in clause *c* of subsection 2 of section 20 it may proceed under the following provisions of this section.

Mode of exercising and extent of powers.

(2) The Commission may without notice and without the deposit of any plan or description or any prerequisite or preliminary action or formality, and with or without the consent of the owner thereof, enter upon, take possession of and use for such time as the Commission may deem desirable any land which the Commission may deem to be required for the due exercise of the powers so authorized.

Compensation

(3) Compensation shall be made to the owner for the land taken or used and for all damage to property resulting from the exercise of the said powers, and in fixing such compensation regard shall in all cases be had to the value of the land taken, or to the nature and extent of the estate, right, privilege, easement, or interest which the Commission decides to take and acquire in, over, upon or in respect of the land as the case may be, and the compensation shall be based thereon.

Rev. Stat. c. 57, How far to apply.

(4) Where the amount of the compensation has been agreed upon or fixed or otherwise determined, all of the provisions of *The Public Works Act* as to the payment or other disposition and application of the compensation or money payable in respect of the land, right or easement taken by the Commission shall, *mutatis mutandis*, apply.

Appointment of and powers of valuator.

(5) The Lieutenant-Governor in Council may from time to time appoint some suitable person as a valuator, who shall receive his reasonable and necessary travelling and other expenses and such salary as may be fixed by the Lieutenant-Governor in Council, and the same shall be paid by the Commission as part of its general administration expense. When no agreement is arrived at as to the amount of compensation to be paid to the owner, the valuator shall as soon as conveniently may be after a request to him either from the owner or the Commission, secure from the Commission a description of the land, right or easement which the Commission requires or has taken from the owner and make such inquiries and inspection and procure such expert advice as he may think desirable and in accordance with subsection 3 fix and determine the compensation to be paid for such land, right or easement, or property damage, and notify by registered letter the owner and the Commission of such finding.

Appeal from valuator.

(6) Either the owner or the Commission, if dissatisfied with the amount of the compensation so fixed, may appeal within thirty days after the mailing of the notice of finding by the valuator by giving notice to the other that an appeal is desired from the same.

Who to hear appeals.

(7) An appeal from the valuator shall be heard and determined by the Ontario Railway and Municipal Board or a member thereof; provided however that the Lieutenant-Governor in Council may from time to time designate a judge of the Supreme Court or a judge of a county or district court to hear and dispose of any such appeal or appeals, and where the Commission gives notice to the owner that an appeal shall be determined by a judge instead of by the Board or a member thereof, the judge designated shall hear and determine such appeal. If a judge is so designated he shall receive his reasonable and necessary travelling expenses and such fee as may be fixed from time to time by the Lieutenant-Governor in Council and the same shall be paid

by the Commission as part of its general administration expenses.

Powers of judge or Board on appeal.

(8) The judge or the Board or any member thereof, as the case may be, shall appoint such time and place and give such notice of the hearing of appeals as may be thought proper and most convenient and such judge or Board or any member thereof shall for the purposes of this section have all the powers which are conferred upon the Ontario Railway and Municipal Board by subsections 3 and 4 of section 20 of *The Railway and Municipal Board Act* and the provisions of that Act with respect to procedure and the enforcement of orders made hereunder from time to time shall, *mutatis mutandis*, apply.

Costs of appeal.

(9) In the notice of appeal the appellant shall set out the amount which the appellant deems proper to have been fixed by the valuator and if, where the owner is the appellant, he fails to recover anything more than the amount fixed by the valuator, or if where the Commission is the appellant it fails to have the amount so fixed reduced, then the costs of the proceedings as between party and party shall be payable by the appellant. If under the provisions of this subsection the costs are payable to the Commission the same may be deducted from the compensation payable.

Scale of costs.

(10) The costs of the proceedings may be fixed by the judge or Board or member thereof at such amount as may be deemed proper, due regard being had however to the difference between the amount fixed by the valuator and the amount awarded by the judge or Board or member thereof, or may be directed to be taxed upon the scale of the division, county or Supreme Court scale, as the case may be. If it appears on such appeal that the claim to compensation put forward by the owner is grossly excessive, and the expense of the Commission has been thereby increased, the judge or Board or member thereof may fix and allow to the Commission by way of set-off against such costs as may be awarded to the owner hereunder, the amount of such excess expense.

Mode of perfecting title.

(11) The owner shall upon reasonable notice attend at a place to be fixed by the Commission, and execute such necessary instruments or documents as the Commission may require upon tender to him of the Commission's cheque for the amount awarded by the judge or Board or member thereof or fixed by the valuator, and costs, if any, less such costs as may have been awarded against him, and in the event of his failing to attend and execute such instruments or documents, or if for any reason the Commission deems it desirable, the Commission may file in the registry office or land titles office, as the case may be, in the district or county in which the land affected is situate, a plan and description of the land, right or easement so taken, signed by the Secretary of the Commission, or by an Ontario Land Surveyor, and thereupon such land, right or easement shall be and become vested in the Commission.

Appeals.

22.—(1) In cases under section 21, either the Commission or the owner may, subject to the provisions of subsection 2 of section 23*a*, appeal to the Appellate Division from the order of the judge or the Board or member thereof, and in all other cases, either the Commission or the owner may appeal to the Appellate Division from the order of the judge or the Board as the case may be.

(2) Where the appeal is taken under the provisions of subsection 1, section 47 of *The Railway and Municipal Board Act* as to appeals from the Board shall apply.

Removal of trees and obstructions beside right-of-way.

23. The powers conferred upon the Commission by or under the authority of this Act, shall include the right to enter upon any land upon either side of the right-of-way acquired for the transmission or distribution lines or works of the Commission, or upon any land upon either side of such lines or works, and to fell or remove any trees or branches thereof or any other obstruction upon any such land or upon any public highway or place which, in the opinion of the Commission, it is necessary to fell or remove, but subject always to the payment of compensation as provided in section 21 of this Act, and the said section shall apply to the exercise of the powers mentioned in this section. R.S.O. 1927, c. 57, s. 23.

Owner to give notice of crop damage.

23*a*.—(1) Notwithstanding anything in section 21 where a claim is made against the Commission for damage to crops, gardens, shrubs, trees or other growing things, caused by or incidental to the construction, maintenance or repair of poles, wires, towers, or works included in or connected with power transmission lines, notice of such claim shall be given in writing, signed by the claimant at as early a date as possible, and so that the nature, character, extent and evidence of the damage may still be apparent, and in any case, not later than sixty days after the cause for complaint arose.

Effect of failure to give notice.

(2) If a claim is made after the time limited by subsection 1, and the claimant has failed to give the notice therein required, either the Commission or the owner may notwithstanding such failure, request the valuator to attend and investigate the damage complained of. The valuator, if satisfied that there was reasonable excuse for the failure to give or the insufficiency of, the notice, and that the Commission was not thereby prejudiced, may award such compensation as may appear to him to be just and in that event, the finding of the valuator shall be final and binding upon the owner, and the Commission. *New.*

Powers of Commission as to wires, poles and conduits.

24. In the exercise of the powers conferred and in carrying out any work authorized by this Act or any other general or special Act, the Commission has and always has had authority to carry its wires along, upon, under and across any public highway or street, and to erect poles and put down conduits and all other structures necessary for that purpose, and to

take down, remove, or take up the same without taking any of the proceedings prescribed by this Act for the taking of land without the consent of the owner thereof, and the provisions of this Act with regard to compensation for lands so taken shall not apply, but the location of any poles, conduits, lines or other structures of the Commission to be hereafter erected, put down or constructed upon a highway shall be agreed upon by the Commission and the municipal corporation or other authority having control of the highway, or in case of disagreement shall be determined by the Ontario Railway and Municipal Board. R.S.O. 1927, c. 57, s. 24.

Cost of improvements.

25. Wherever in the course of constructing, reconstructing, altering or improving any highway it becomes necessary to take up, remove or change the location of poles, wires, conduits, transformers or other appliances or works placed on or under a highway by the Commission, the costs and expenses incurred in such work shall be apportioned and paid in the manner provided by sections 2 and 3 of *The Public Service Works on Highways Act*, and the said section shall apply to the Commission in the same manner and to the same extent as to a municipal corporation, commission, company or individual owning or operating appliances or works mentioned in the said section. R.S.O. 1927, c. 57, s. 25.

Rev. Stat., c. 56.

Buildings.

26.—(1) The Commission may expropriate, purchase, lease or otherwise acquire lands which the Commission may deem necessary for office, service, or other buildings, and may erect thereon such buildings and works as the Commission may require for its purposes.

Expense repayable by municipalities.

(2) All expenditures by the Commission for the purposes mentioned in subsection 1 shall be repayable to the Commission by the municipal corporations having contracts with the Commission, and shall be repaid by annual sums sufficient to form in forty years a sinking fund for the repayment of the cost thereof. R.S.O. 1927, c. 57, s. 26.

Sale of lands no longer required.

27. The Commission may, upon such terms as it deems proper, lease, sell or otherwise dispose of any property, real or personal, which the Commission may deem unnecessary for its purposes. R.S.O. 1927, c. 57, s. 27.

Abandonment of lands after expropriation.

28.—(1) Where any of the compulsory powers mentioned in section 20 are exercised with respect to land, and no entry on or use of the land taken has been made, except for the purpose of survey or examination, the Commission, at any time before the expiration of three months from the date of the award, may, by writing under the hand of the chairman and the seal of the Commission, registered in the proper registry or land titles office, declare that the land or any part thereof is not required and is abandoned by the Commission; and thereupon the land declared to be abandoned shall revest in the person from whom it was taken, or in those entitled to claim under him.

Total abandonment.

(2) Where the land taken, or any part thereof, is abandoned, the person from whom it was taken shall be entitled to all damages

sustained and all costs incurred by him in consequence of the taking and abandonment; and where part only of the land is abandoned the fact of such abandonment and the damages, if any, sustained in consequence of that which is abandoned having been taken, and all the other circumstances of the case shall be taken into account in determining the amount to be paid to any person claiming compensation, and the amount of the damages, shall, subject to the provisions of section 21, be determined in the manner provided by *The Public Works Act*, and if a reference as to compensation is pending, shall be determined on such reference. R.S.O. 1927, c. 57, s. 28.

Partial abandonment.

Rev. Stat., c. 52.

Extent of powers of expropriation.

29. The compulsory powers conferred by this Act shall extend to land, works, rights, powers, privileges and property notwithstanding that they are or may be deemed to be devoted to a public use or that the owner thereof possesses the power of taking land compulsorily. R.S.O. 1927, c. 57, s. 29.

Adjustment of proportions of cost of works on waters.

30.—(1) Where in the exercise of the powers conferred by this Act the Commission constructs any works or improvements upon any lake, river, stream or other body of water the Lieutenant-Governor in Council may direct a judge of the Supreme Court or the judge of the county or district court to enquire into and determine the proportion in which any municipal or other corporation, company or individual owning a water power or water power site, whether developed or not, is benefited by such works or improvements and the judge may make an order fixing the proportion in which the cost of such works and improvements shall be borne by any such municipal or other corporation, company or individual and by the Province respectively.

Apportionment of costs of works heretofore constructed.

(2) Where under an agreement or any instrument purporting to be an agreement with a municipal corporation the Commission has heretofore constructed works or improvements upon any lake, river, stream or other body of water and it appears to the Lieutenant-Governor in Council that such works or improvements are or may be of benefit to, or increase the value of the land of any individual or corporation other than such municipal corporation, the Lieutenant-Governor in Council may direct a judge of the Supreme Court, or a judge of a county or district court, to inquire into and determine the proportion in which such municipal corporation and any such individual or other corporation are or may be respectively benefited or the value of the land of any of them increased by such works or improvements, and the judge may make an order fixing the portion in which the cost of such works or improvements shall be borne by the municipal corporation party to such agreement or instrument, and by any such individual or corporation and by the Province respectively, and may fix such proportion without regard to the terms of such agreement or instrument. 1929, c. 20, s. 4.

(a) The judge, upon an inquiry under this section, shall have the like powers as a judge sitting in court including the power to compel the attendance of witnesses, to hear evidence on oath and to require the production of books, papers, documents, matters and things and the order of the judge shall be enforceable in the manner provided by *The Judges' Orders Enforcement Act*. 1930, c. 12, s. 6.

Judge's powers on inquiry as to apportionment of costs of waterway improvement.

Rev. Stat., c. 111.

(3) No costs shall be awarded to any party appearing before the judge or otherwise interested in the inquiry. 1929, c. 20. s. 4.

When costs not to be awarded.

(4) The judge shall be paid such fees and expenses as shall be fixed by the Lieutenant-Governor in Council. 1929, c. 20, s. 4.

Fees and expenses.

(5) For the purposes of this section the cost of the works or improvements shall be deemed to include all expenditures, charges and expenses as fixed by the Commission made or incurred by it in respect of the construction of such works or improvements, extensions and additions thereto, interest charges, operating expenses, repairs and maintenance, down to the date of the order of the judge, the fees and expenses of the judge and the expenses incurred by the Commission in connection with the inquiry. 1929, c. 20, s. 4.

Cost of works, etc.,—what to include.

(6) Any person, or any municipal or other corporation affected by the order made under the authority of subsection 1 or subsection 2 may, with the consent in writing of the Commission, appeal from such order to the Appellate Division. 1929, c. 20, s. 4.

Appeal.

(7) (a) The Commission may establish a sinking fund to be provided by the parties in the proportions directed by the order of the judge sufficient to discharge and pay off the cost of such works or improvements and such of the capital costs as may be incurred from time to time by the Commission after the date of the order of the judge within such periods as the Commission may fix having regard to the life of such works or improvements and not exceeding forty years. 1929, c. 20, s. 4.

Sinking fund.

(b) The Commission shall subsequent to the order of the judge annually fix and determine the costs, charges or expenses incurred by it from time to time in the operation, maintenance, repair and renewal of such works and shall apportion and charge the same against the parties in the proportions fixed by the order of the judge together with the payments in respect of sinking fund hereinbefore mentioned and the amounts so charged shall be payable on demand recoverable in the manner hereinafter provided. 1929, c. 20, s. 4.

Annual apportionment of costs by Commission.

(8) In fixing the amounts so payable the Commission shall give credit for any amount theretofore contributed to the cost of such works and improvements by a municipal or other corporation or by any individual. 1929, c. 20, s. 4.

Allowance for previous expenditure.

(9) The amount so found payable by a municipal corporation shall be recoverable in the like manner as in the case of a

Recovery of amount assessed.

charge for any other service rendered by the Commission to a municipal corporation and in the case of any other corporation or of an individual the amount so found due shall constitute a debt due to the Commission and shall be recoverable in any court of competent jurisdiction from the owners from time to time of the lands so found by the order of the judge to be benefited by such works or improvements and shall constitute a lien or charge upon such lands enforceable in the same manner and by the same proceedings as nearly as may be as in the case of a charge in favour of the Crown. 1929, c. 20, s. 4.

Share of Province,—how payable.

(10) Where a proportion of the cost of such works and improvements is to be borne by the Province the amount due from time to time in respect thereof shall be payable out of any moneys appropriated by the Legislature for that purpose. 1929, c. 20, s. 4.

How far order to be final and binding.

(11) When the proportions in which the cost of such works or improvements is to be borne have been fixed by order of the judge or of the Appellate Division such order shall be final and binding unless and until it shall appear to the Commission that owing to change of circumstances or conditions in respect of such works or improvements it is equitable that there should be a readjustment of the proportions theretofore fixed by the order of the judge and in that case upon the application of any person liable to contribute to the cost of such works or improvements, made with the consent in writing of the Commission, the judge may make further inquiry and may readjust such proportions to be thereafter applied in such manner as he may deem just and equitable subject to appeal as hereinbefore provided. 1929, c. 20, s. 4.

Rev. Stat., c. 57, s. 49, subs. 5, amended.

4. Subsection 5 of section 49 of *The Power Commission Act* is amended by inserting the words "principal or" before the words "sinking fund" in the fifth line thereof, and is further amended by inserting the word "of" before the word "interest" in the fifth line thereof.

Rev. Stat., c. 57, s. 64, subs. 8 (1929, c. 20, s. 6), amended.

5. Subsection 8 of section 64 of *The Power Commission Act* as enacted by section 6 of *The Power Commission Act, 1929*, is amended by inserting after the word "costs" in the tenth line thereof the words "at any time," and is further amended by inserting after the word "area" in the eleventh line thereof the words "whether under this Act or *The Local Improvement Act*," and is further amended by adding before the word "only" in the thirteenth line thereof the following words, "it shall not be necessary to levy any special rate under *The Local Improvement Act* to provide for the payments which would otherwise be levied under the said Act in respect of the lands included in the area;".

Street lighting on local improvement plan.

Rev. Stat., c. 57, s. 80, amended.

6. Section 80 of *The Power Commission Act* is amended by adding thereto the following subsection:

Proving regulations as to installations, etc.

(12) The regulations passed pursuant to this section may be proved by the production of a copy of such rules and regulations certified to by the Secretary and bearing the seal of

the Commission and the production of such certified copy bearing the seal of the Commission shall be *prima facie* evidence of the due execution thereof by the said Secretary.

7. Section 81 of *The Power Commission Act* is amended by adding thereto the following subsections:

Rev. Stat., c. 57, s. 81, amended.

Municipal debentures for extension or improvement.

(5) The provisions of this section shall not apply to any by-law or by-laws authorizing the issue of debentures to defray the cost of, or to repay temporary loans incurred in connection with any works mentioned in subsection 1 hereof, when the estimated cost of such works and the borrowing of such estimated cost has been approved by the Commission and the principal amount of the debentures so authorized does not exceed the estimated cost aforesaid by more than five per cent.

Restriction as to application of local improvement by-law.

(6) Equipment, plant and works constructed and erected on petition only as defined in clause *n* of subsection 1 of section 2 of *The Local Improvement Act* shall not be deemed extensions or improvements within the meaning of this section.

Rev. Stat., c. 57, s. 97, subs. 1, amended.

8.—(1) Subsection 1 of section 97 of *The Power Commission Act* is amended by inserting before the word "Notwithstanding" at the commencement thereof the words "Except as provided in this section."

Appointment of municipal commissions.

(2) Subsection 2 of section 97 of *The Power Commission Act* is amended by striking out the words "at its first meeting in each year" in the tenth line and is further amended by striking out the word "or" in the thirteenth line and substituting therefor the word "and."

Rev. Stat., c. 57, s. 97, amended.

(3) Section 97 of *The Power Commission Act* is amended by adding thereto the following subsection:

Order of appointments on city commission.

(3) The order of the appointment of Commissioners provided for in subsection 2 shall be that the Commission may, if it sees fit to do so and has not at the time the vacancy occurs an appointee holding office on the municipal commission, first make an appointment. If the Commission desires to defer its appointment until the next vacancy occurs the council of the city shall make such appointment, but nothing in this subsection or in subsection 2 shall have the effect of removing from office any member of such municipal commission until his term of office shall have expired.

Rev. Stat., c. 57, s. 98, subs. 1, amended.

9. Subsection 1 of section 98 of *The Power Commission Act* is amended by adding thereto the following as clause *c*:

Prohibition of municipal commissioners being interested in certain concerns.

(*c*) Act as director, officer or employee of any company referred to in clause (*a*), or having any interest referred to in clause (*b*), or act as trustee, agent or representative of any firm or individual in respect of any business or interest referred to in clause (*a*) or clause (*b*).

Sale of Wahnapitae Company's assets confirmed.

10. The two agreements each dated 30th day of April, A.D. 1930, for sale and transfer to Wahnapitae Power Company Limited by its two subsidiary companies, Upper Wahnapitae River Improvement Company Limited and Wahnapitae Boom and Timber Slide Company Limited, of all the properties, rights, assets, franchises and undertakings of each of the said subsidiary companies respectively, and also the agreement dated 30th day of April, A.D. 1930, for sale and transfer by Wahnapitae Power Company Limited of all its properties, rights, assets, franchises and undertakings to The Hydro-Electric Power Commission of Ontario in which the Montreal Trust Company joined as a Party are all hereby confirmed and declared to be legal, valid and binding to all intents and purposes and to have been authorized by *The Power Commission and Companies Transfer Act, 1930.* 1930, c. 16.

Sale of Galetta Company's assets confirmed.

11. The agreement dated the 30th day of April, A.D. 1930, for sale and transfer by The Galetta Electric Power and Milling Company Limited of all its properties, rights, assets, franchises and undertakings to The Hydro-Electric Power Commission of Ontario is hereby confirmed and declared to be legal, valid and binding to all intents and purposes.

Agreements for transfer of assets of certain companies confirmed.

12. The agreement dated the 31st day of March, A.D. 1930, for sale and transfer by Public Utilities Consolidated Corporation of all its Ontario properties, rights, assets, franchises and undertakings to The Hydro-Electric Power Commission of Ontario, and the two agreements each dated the 1st day of October, A.D. 1930, for sale and transfer by The Walkerton Electric Light and Power Company Limited and by The Saugeen Electric Light and Power Company of Ontario Limited of all the properties, rights, assets, franchises and undertakings of each of the said companies respectively to The Hydro-Electric Power Commission of Ontario are all hereby confirmed and declared to be legal, valid and binding to all intents and purposes.

Confirmation of title.

13. All and every part of the properties, assets, contracts, easements, rights, privileges, licenses, franchises and undertakings agreed to be sold to the Commission by any of the said agreements mentioned in sections 8, 9 and 10 or conveyed or purported to be conveyed to the said Commission thereby shall be, and shall be deemed to have been from the date of the respective agreement selling, conveying or purporting to convey the same, vested in and the property of the Commission free from all liens, charges and encumbrances save only that everything agreed to be sold, conveyed or purported to be conveyed under the said agreement for sale and transfer from Wahnapitae Power Company Limited to The Hydro-Electric Power Commission of Ontario dated the 30th day of April, A.D. 1930, shall be subject to the indenture of mortgage dated the 1st day of November, A.D. 1924, given by the Wahnapitae Power Company Limited to Montreal Trust Company as provided in *The Power Commission and Companies Transfer Act, 1930.* 1930, c. 16.

By-laws confirmed.

14. By-law number 1317 of the corporation of the town of Napanee; by-laws numbers 854 and 855 of the corporation of the town of Deseronto; by-law number 818 of the corporation of the town of Southampton; by-laws numbers 1462, 1463 and 1482 of the corporation of the town of Walkerton; by-laws numbers 306 and 307 of the corporation of the town of Wiarton; by-law number A 196 of the corporation of the village of Brighton; by-laws numbers 265 and 267 of the corporation of the village of Cardinal; by-laws numbers 706 and 707 of the corporation of the village of Hastings; by-law number 442 of the corporation of the village of Madoc; by-laws numbers 778, 779 and 786 of the corporation of the village of Port Elgin; by-law number 391 of the corporation of the village of Stirling; by-law number 351 of the corporation of the village of Tweed; by-law number 31 of 1929 of the corporation of the village of Windermere; by-law number 182 of the corporation of the township of Ameliasburg; by-law number 785 of the corporation of the township of Ancaster; by-law number 1047 of the corporation of the township of Bastard and Burgess South; by-laws numbers 614 and 615 of the corporation of the township of Camden East; by-law number A-11 of the corporation of the township of Crosby South; by-law number 1078 of the corporation of the township of East Whitby; by-law number 1228 of the corporation of the township of Hamilton; by-law number 420 of the corporation of the township of Hillier; by-law number 488 of the corporation of the township of Hungerford; by-law number 256 of the corporation of the township of Kingston; by-law number 704 of the corporation of the township of Lobo; by-law number 134B of the corporation of the township of Loughborough; by-laws numbers 1049 and 1050 of the corporation of the township of Manvers; by-law number 698 of the corporation of the township of Medonte; by-law number 604 of the corporation of the township of Rainham; by-law number 549 of the corporation of the township of Rawdon; by-law number 410 of the corporation of the township of Stamford; by-law number 9 of 1930 of the corporation of the township of Thorold; by-law number 455 of the corporation of the township of Trafalgar; by-law number 936 of the corporation of the township of Walpole; by-law number 2 of 1930 of the corporation of the township of Wolford; and all debentures issued or to be issued or purporting to be issued under any of the said by-laws which authorize the issue of debentures are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature.

15. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

CHAPTER 14

An Act to amend The Guelph Railway Act, 1921

Assented to April 2nd, 1931.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Guelph Railway Act, 1931.* Short title

2. *The Guelph Railway Act, 1921*, as amended by *The Guelph Railway Act, 1923*, is further amended by adding thereto the following section: 1921, c. 22, amended.

Bond issue by the Commission.

6*a*.—(1) The Commission is hereby authorized without obtaining the consent of the corporation to issue bonds of the Commission to the principal amount of $300,000, dated 1st May, 1931, bearing such rate of interest, not exceeding 5 per centum per annum maturing on such date not later than 1st May, 1971, payable at such place and being in such form as the Commission may determine, and to sell, pledge or otherwise dispose of the said bonds upon such terms as the Commission may determine. The said bonds and any proceeds from the sale, pledge or other disposition thereof, to the extent that the same may be necessary, shall be employed by the Commission in repaying or retiring bonds of the Commission to the principal amount of $300,000 maturing 1st May, 1931, heretofore issued by the Commission under the authority of section 4, including any of said bonds maturing 1st May, 1931, which have been acquired by the Commission.

Bonds may be guaranteed by Province.

(2) The Lieutenant-Governor in Council may authorize the Treasurer of Ontario for and on behalf of the Province, to guarantee the payment of the principal of, and interest on the bonds of the Commission authorized by this section, and the form of the guarantee and the manner of its execution shall be determined by the Lieutenant-Governor in Council.

Application of debentures heretofore issued.

(3) Upon the payment or retirement, or provision for the payment or retirement of the said bonds of the Commission to the principal amount of $300,000, maturing 1st May, 1931, debentures to the principal amount of $300,000 heretofore issued by the corporation, and deposited with the Commission pursuant to section 5, shall be held and dealt with by the Commission and the corporation in the manner and upon the terms and conditions and for the purposes set forth in section 5, and in the agreement set out as schedule "A" to the same extent and effect as if the said debentures had been issued and deposited with the Commission in respect of the bonds of the Commission authorized to be issued under this section, instead of the said bonds maturing 1st May, 1931, and all the provisions of this Act and the said agreement relating to the said bonds, maturing 1st May, 1931, shall apply equally to the bonds authorized to be issued by the Commission under this section, provided that an annual sinking fund sufficient to repay at their maturity the bonds to be issued under this section, shall be set aside in each year during the currency of said bonds, and until applied to the repayment of said bonds at maturity, may be invested in securities authorized for investments by trustees in Ontario.

1921, c. 22, s. 5, subs. 5, amended.

3. Subsection 5 of section 5 of *The Guelph Railway Act, 1921*, as amended by *The Guelph Railway Act, 1923*, is amended by striking out the words "under section 9" in the fourth line and by substituting therefor the word "hereunder."

Commencement of Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1931

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths, and weights of conductors, and other particulars of the high-voltage steel-tower transmission lines, the wood-pole transmission lines —excepting 4,000 volts or less—and the telephone lines.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

The total mileage of lines built and acquired by the Commission up to October 31, 1931, for the various systems, excepting all lines operating at less than 4,000 volts, is indicated in the following table:

TOTAL MILEAGE OF TRANSMISSION LINES

System and type of construction	Miles
Niagara system—220,000-volt, steel-supported transmission lines—Line 1	198.97
Niagara system—220,000-volt, steel-supported transmission lines—Line 2	202.03
Niagara system—220,000-volt, steel-supported transmission lines—Line 3	202.56
Northern Ontario system—132,000-volt, steel-supported transmission lines	189.00
Niagara system—110,000-volt, steel-supported transmission lines	731.91
Niagara system—110,000-volt, wood-supported transmission lines	68.75
Eastern Ontario system—110,000-volt, steel-supported transmission lines	52.93
Eastern Ontario system—110,000-volt, wood-supported transmission lines	61.58
Thunder Bay system—110,000-volt, steel-supported transmission lines	82.12
Thunder Bay system—110,000-volt, wood-supported transmission lines	82.75
Thunder Bay system—12,000-volt, wood-supported transmission lines	1.45
Georgian Bay system—110,000-volt, wood-supported transmission lines	55.83
Niagara system—90,000-volt, steel-supported transmission lines	65.72
Niagara system—60,000-volt, steel-supported transmission lines	54.07
Niagara system—60,000-volt, wood-supported transmission lines	17.12
Niagara system—46,000-volt, steel-supported transmission lines	16.94
Niagara system—46,000-volt, wood-supported transmission lines	21.54
Niagara system—30,000-volt, wood-supported transmission lines	13.29
Niagara system—26,400-volt, wood-supported transmission lines	569.17
Niagara system—13,200-volt, wood-supported transmission lines	446.61
Niagara system—12,000-volt, wood-supported transmission lines	180.32
D.P. & T. system—44,000-volt, steel-supported transmission lines	37.37
D.P. & T. system—44,000-volt, wood-supported transmission lines	153.85
D.P. & T. system—22,000-volt, wood-supported transmission lines	28.23
D.P. & T. system—22,000-volt, concrete pole transmission lines	10.55
D.P. & T. system—11,500-volt, wood-supported transmission lines	7.33
D.P. & T. system—10,000-volt, wood-supported transmission lines	6.76
Georgian Bay system—(38,000-volt)	54.28
Georgian Bay system—(6,600-volt)	2.30
Georgian Bay system—	
Severn district—(22,000-volt)	175.88
Eugenia district—(22,000-volt)	322.78
Wasdells district—(22,000-volt)	82.95
Muskoka district—(38,000-volt and less)	26.47
Eastern Ontario system—	
Central Ontario district—(44,000-volt and less)	509.59
St. Lawrence district—(44,000-volt)	120.02
Rideau district—(26,400-volt)	76.96
Madawaska district—(33,000-volt and less)	70.26
Northern Ontario system—	
Nipissing district—(22,000-volt)	51.06
Sudbury district—(22,000-volt)	33.23
Total	5,084.53
Total separate wood-pole telephone lines for high-voltage systems	1,131.06

NOTE.—Of the above the Niagara system and a part of the Northern Ontario system are operated at 25 cycles. The other systems are operated at 60 cycles.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS

Type of construction	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Under construction Oct. 31, 1931
High-voltage lines, 220,000 volts, Niagara system	1,218.39	592.29		6,587,834	3,202,512	
High-voltage lines, 132,000 volts, Northern Ontario system		1,134.00			3,161,592	
High-voltage lines, 110,000 volts and less, Niagara system	5,305.83	19.20		16,297,530	79,065	
High-voltage lines, 110,000 volts, Thunder Bay system	745.44			1,921,773		
High-voltage lines, 110,000 volts, Eastern Ontario system	351.42			1,390,773		
High-voltage lines, 110,000 volts, Georgian Bay system	176.67			231,104		
Wood and steel power lines built and acquired by the Commission	9,505.09	256.68	17.25	9,541,654	160,216	37,277
Dominion Power and Transmission system, acquired by the Commission	884.85			822,863		
Telephone lines built and acquired by the Commission and erected on wood-pole lines carrying power conductors	4,494.00	98.10	4.00	1,076,962	20,462	836
High-voltage telephone lines, Niagara system, 220,000 volts	421.00			81,833		
High-voltage telephone lines, Northern system, 132 000 volts		381.52			85,693	
High-voltage telephone lines, Niagara system	3,608.80	173.00		1,084,836	18,250	
High-voltage telephone lines, Eastern Ontario system	227.86			79,358		
High-voltage telephone lines, Thunder Bay system	201.10			71,770		
High-voltage telephone lines, Georgian Bay system	111.66			43,394		
Totals	27,252.11	2,654.79	21.25	39,231,684	6,727,790	38,113

NOTE.—This table does not include lines operated at less than 6,600 volts.

NIAGARA SYSTEM—

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
220,000-volt, steel-supported transmission lines......	406.13	197.43	603.56

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
795,000 c.m., a.c.s-r.............................	1,218.39	592.29	1,810.68

NORTHERN ONTARIO SYSTEM—SUDBURY DISTRICT—

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
132,000-volt, steel-supported transmission lines......	....	189.00	189.00

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
336,400 c.m., a.c.s-r.............................	....	1,134.00	1,134.00

NOTE.—a.c.s-r = Aluminum conductor, steel-reinforced; weights include steel core.

220,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
220,000-volt towers	2,022	981	3,003

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines		
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1931
6,587,834	3,202,512	9,790,346	406.13	197.43	603.56

132,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
132,000-volt towers	....	983	983

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of double-circuit lines		
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1931
....	3,161,592	3,161,592	....	189.00	189.00

EASTERN ONTARIO SYSTEM—

TOTAL MILEAGE OF HIGH VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt, steel-supported transmission lines	52.93	....	52.93
110,000-volt, wood-supported transmission lines	61.58	....	61.58
Totals	114.51	....	114.51

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
477,000 c.m., a.c.s-r.	278.43	....	278.43	1,277,201	....	1,277,201
211,600 c.m., a.c.s-r. (4/0)	72.99	....	72.99	113,572	....	113,572
Totals	351.42	....	351.42	1,390,773	....	1,390,773

Note—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel core.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt steel towers	294	....	294
110,000-volt wood poles	842	....	842
Totals	1,136	....	1,136

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Total miles single- and double-circuit lines Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	
87.55	....	87.55	2.63	....	2.63	90.18
24.33	....	24.33	....	....	....	24.33
111.88	....	111.88	2.63	....	2.63	114.51

NIAGARA SYSTEM—

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt, steel-supported transmission lines......	728.71	3.20	731.91
110,000-volt, wood-supported transmission lines.....	68.75	....	68.75
90,000-volt, steel-supported transmission lines......	65.72	....	65.72
60,000-volt, steel-supported transmission lines......	54.07	....	54.07
60,000-volt, wood-supported transmission lines.....	17.12	....	17.12
46,000-volt, steel-supported transmission lines......	16.94	....	16.94
46,000-volt, wood-supported transmission lines.....	21.54	....	21.54
12,000-volt, wood-supported transmission lines.....	5.93	....	5.93
Totals..............................	978.78	3.20	981.98

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor: Completed to Oct. 31, 1930	Wire miles of conductor: Completed Oct. 31, 1930 to Oct. 31, 1931	Wire miles of conductor: Under construction Oct. 31, 1931	Weight in pounds: Completed to Oct. 31, 1930	Weight in pounds: Completed Oct. 31, 1930 to Oct. 31, 1931	Weight in pounds: Under construction Oct. 31, 1931
167,800 c.m., a.c.s-r...........	198.00	....	....	242,946	....	....
266,800 c.m., a.c.s-r...........	308.43	....	....	558,566	....	....
312,000 c.m., a.c.s-r...........	598.62	....	....	1,547,432	....	....
336,400 c.m., a.c.s-r...........	571.14	....	....	1,592,338	....	....
477,000 c.m., a.c.s-r...........	48.06	....	....	162,202	....	....
500,000 c.m., a.c.s-r...........	246.30	....	....	1,010,322	....	....
605,000 c.m., a.c.s-r...........	1,186.38	19.20	....	4,885,511	79,065	....
115,000 c.m., copper..........	22.47	....	....	41,996	....	....
133,079 c.m., copper..........	3.18	....	....	6,871	....	....
167,800 c.m., copper..........	616.86	....	....	1,679,709	....	....
190,000 c.m., copper..........	769.08	....	....	2,436,445	....	....
211,600 c.m., copper..........	515.76	....	....	1,770,602	....	....
115,000 c.m., aluminum.......	0.57	....	....	327	....	....
211,600 c.m., aluminum.......	34.20	....	....	35,910	....	....
345,000 c.m., aluminum.......	79.50	....	....	130,141	....	....
500,000 c.m., aluminum.......	6.60	....	....	16,434	....	....
820,000 c.m., aluminum.......	36.06	....	....	108,180	....	....
5/16″ galv. steel.............	64.62	....	....	71,598	....	....
Totals..................	5,305.83	19.20	....	16,297,530	79,065	....

NOTE—a.c.s-r=Aluminum conductors, steel-reinforced. Weights include steel core.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt, steel towers	6,186	25	6,211
110,000-volt, wood poles	855		855
90,000-volt, steel towers	747		747
60,000-volt, steel towers	769		769
60,000-volt, wood poles	506		506
46,000-volt, steel poles	376		376
46,000-volt, wood poles	672		672
12,000-volt, wood poles	333		333
Totals	10,444	25	10,469

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Miles of four-circuit lines			Total miles one-, two- and four-circuit lines
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1931
66.00									66.00
38.31			32.25						70.56
23.90			87.82						111.72
			95.19						95.19
15.60			0.21						15.81
0.62			40.74						41.36
1.21			192.11	3.20		2.52			199.04
7.49									7.49
			0.53						0.53
			102.81						102.81
5.26			125.55						130.81
			0.53			15.88			16.41
0.19									0.19
			5.70						5.70
			13 25						13.25
			1.10						1.10
12.02									12.02
21.54									21.54
192.14			679.79	3.20		18.40			911.53

THUNDER BAY SYSTEM—

MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt, steel-supported transmission lines......	82.12	....	82.12
110,000-volt, wood-supported transmission lines.....	82.75	....	82.75
12,000-volt, wood-supported transmission lines......	1.45	....	1.45
Totals............................	166.32	....	166.32

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
336,400 c.m., a.c.s-r...........	278.22	....	278.22	775,677	....	775,677
4/0 a.c.s-r (211,000 c.m.)......	233.67	....	233.67	363,590	....	363,590
4/0 copper (211,000 c.m.).....	218.40	....	218.40	749,767	....	749,767
2/0 copper (133,079 c.m.).....	15.15	....	15.15	32,739	....	32,739
Totals.............	745.44	....	745.44	1,921,773	....	1,921,773

GEORGIAN BAY SYSTEM—

MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt, wood-supported transmission lines	55.83	....	55.83
Totals..........................	55.83	....	55.83

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total completed to Oct. 31, 1931
3/0 a.c.s-r. (167,800 c.m.)........................	167.49	....	167.49
336,400 c.m., a.c.s-r..........................	9.18	....	9.18
Totals...........................	176.67	....	176.67

NOTE—a.c.s.r.=Aluminum conductor, steel-reinforced.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt steel towers	539	....	539
110,000-volt wood poles	1,342	....	1,342
12,000-volt wood poles	59	....	59
Totals	1,940	....	1,940

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit conductors			Miles of double-circuit conductors			Total miles single- and double-circuit conductors
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1931
83.65	....	83.65	4.43	....	4.43	88.08
77.89	....	77.89	....	....	....	77.89
72.80	....	72.80	....	....	....	72.80
5.05	....	5.05	....	....	....	5.05
239.39	....	239.39	4.43	....	4.43	243.82

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF WOOD POLES

Type	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
110,000-volt wood poles	548	....	548
Totals	548	....	548

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines			Total miles single-circuit lines
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total completed to Oct. 31, 1931	Completed to Oct. 31, 1931
205,510	....	205,510	55.83	....	55.83	55.83
25,594	....	25,594	3.06	....	3.06	3.06
231,104	....	231,104	58.89	....	58.89	58.89

Weights include steel core.

NIAGARA SYSTEM—WOOD-POLE TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds		Miles of single-circuit lines	
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931
No. 8 B. & S.G. copper....	32.18	....	8,494	....	16.09	....
No. 9 B. & S.G. copper....	1,082.90	....	226,326	....	91.65	....
No. 10 B. & S.G. copper....	1,124.68	....	186,697	....	207.88	....
No. 11 B. & S.G. copper....	107.68	....	17,013	....	53.84	....
No. 4 copper-clad steel.....	12.00	....	7,440	....	....	....
No. 8 copper-clad steel.....	188.28	....	46,128	....	1.94	....
No. 14 copper-clad steel.....	7.68	....	468	....	....	....
No. 17 copper-clad steel.....	10.88	....	326	....	5.44	....
No. 19 p-i. l-c. cable........	819.20	173.00	112,082	18,250	....	....
No. 22 p-i. l-c. cable........	34.00	....	296,208	....	....	....
No. 12 B.W.G. galv. iron....	11.40	....	1,881	....	5.70	....
No. 12 weather-proof iron...	2.84	....	886	....	1.42	....
6 x .0661 steel, 1 x .0661 alum.	132.00	....	77,748	....	66.00	....
No. 9 galv. iron............	43.08	....	13,139	....	....	....
Totals...............	3,608.80	173.00	1,084,836	18,250	449.96	....

NOTE—B. & S.G.=Browne & Sharpe gauge.

FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS (Excluding 220,000-volt lines)

Miles of double-circuit lines		Miles of 4-circuit lines		Miles of paper-insulated lead-covered copper cable		Total mileage 1-, 2-, 4-, and miscellaneous circuits completed to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	
....	....	....	....	....	....	16.09
212.80	....	6.05	....	....	....	310.50
177.23	....	....	....	....	....	385.11
....	....	....	....	....	....	53.84
3.00	....	....	....		....	3.00
42.36	....	1.37	....	....	....	45.67
1.92	....	....	....	....	....	1.92
....	....	....	....	....	....	5.44
....	....	....	....	11.16	3.46	14.62
....	....	....	....	0.34	....	0.34
....	....	....	....	....	....	5.70
....	....	....	....	....	....	1.42
....	....	....	....	....	....	66.00
21.54	....	....	....	....	....	21.54
458.85	....	7.42	....	11.50	3.46	931.19

NOTE—B.W.G.=Birmingham wire gauge.
p-i. l-c. cable=Paper-insulated lead-covered cable.

THUNDER BAY SYSTEM—WOOD-POLE TELEPHONE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
3 x 12 galv. steel	13.24	....	13.24	6,554	....	6,554
3 x 13 galv. steel	161.04	....	161.04	60,390	....	60,390
No. 6 a.c.s-r	18.32	....	18.32	3,517	....	3,517
No. 10 copper-clad steel	8.50	....	8.50	1,309	....	1,309
Totals	201.10	....	201.10	71,770	....	71,770

Note—a.c.s-r. = Aluminum conductor, steel-reinforced. Weights include steel core.

LINE FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage completed to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct 31, 1930 to Oct. 31, 1931	
6.62	....	6.62
80.52	....	80.52
9.16	....	9.16
4.25	....	4.25
100.55	....	100.55

WOOD AND STEEL-POLE TRANSMISSION AND TELEPHONE LINES

(Excluding High-Voltage Lines)

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1930	Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
Low-tension lines completed	2,518.39	84.39	2,602.78
Low-tension lines under construction	....	3.75	3.75
Single-circuit lines completed	1,968.54	1.17	1,969.71
Double-circuit lines completed	525.79	83.22	609.01
Three-circuit lines completed	23.73	....	23.73
Five-circuit lines completed	0.33	....	0.33
Single-circuit telephone lines completed	2,205.75	49.05	2,254.80
Double-circuit telephone lines completed	137.36	....	137.36
Three-circuit telephone lines completed	7.54	....	7.54
STEEL AND WOOD POLES			
Number of poles erected	103,329	2,718	106,047
Number of steel poles erected	16	....	16
Number of poles under construction	....	....	....

NIAGARA SYSTEM—TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Completed to Oct. 31, 1931
No. 6 a.c. s-r..........	362.14	....	362.14	69,531	....	69,531
No. 9 copper..........	58.86	....	58.86	12,302	....	12,302
Totals............	421.00	....	421.00	81,833	....	81,833

EASTERN ONTARIO SYSTEM—

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Total to Oct. 31, 1931
3 x .0661 aluminum.... 4 x .0661 steel........	128.62	....	128.62	40,258	....	40,258
1 x .0661 aluminum.... 6 x .0661 steel........	99.24	....	99.24	39,100	....	39,100
Totals............	227.86	....	227.86	79,358	....	79,358

GEORGIAN BAY SYSTEM—TELEPHONE LINE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Total to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	Total to Oct. 31, 1931
1 x .0661 aluminum.... 6 x .0661 steel........	111.66	....	111.66	43,394	....	43,394
Totals............	111.66	....	111.66	43,394	....	43,394

NOTE a.c.s-r. = Aluminum conductor, steel-reinforced. Weights include steel core.

FOR 220,000-VOLT LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	
181.07	....	181.07
29.43	....	29.43
210.50	....	210.50

HIGH-VOLTAGE TELEPHONE LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	
64.31	....	64.31
49.62	....	49.62
113.93	....	113.93

FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930, to Oct. 31, 1931	
55.83	....	55.83
55.83	....	55.83

WOOD AND STEEL-POLE

SUMMARY—

GAUGE, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931
1,035,500 c.m. aluminum	1.68			8,610		
500,000 c.m. aluminum	78.66			195,863		
345,000 c.m. aluminum	215.19			352,266		
336,400 c.m. aluminum	7.26			12,109		
300,000 c.m. aluminum	42.30			63,027		
173,000 c.m. aluminum	37.29			32,293		
4/0 aluminum (211,600 c.m.)	771.27			813,130		
3/0 aluminum (167,800 c.m.)	1,989.18			1,658,974		
2/0 aluminum (133,079 c.m.)	183.60			122,093		
1/0 aluminum (105,534 c.m.)	726.78			381,558		
No. 2 aluminum (66,373 c.m.)	342.63			113,067		
477,000 c.m. a.c.s-r	103.80			350,325		
605,000 c.m. a.c.s-r	2.10			8,377		
336,400 c.m. a.c.s-r	176.80			465,035		
125,000 c.m. a.c.s-r	233.34			214,672		
4/0 a.c.s-r (211,600 c.m.)	433.50	14.31		674,523	22,266	
3/0 a.c.s-r (167,800 c.m.)	238.47			292,601		
2/0 a.c.s-r (133,079 c.m.)	87.84			85,819		
1/0 a.c.s-r (105,534 c.m.)	805.77	76.80		628,997	59,596	
No. 2 a.c.s-r (66,373 c.m.)	1,249.08	124.02		625,725	60,521	
No. 4 a.c.s-r (41,742 c.m.)	57.00	38.79		17,442	11,869	
190,000 c.m. copper	131.52			416,655		
173,000 c.m. copper	3.75			10,552		
115,000 c.m. copper	73.95			138,212		
4/0 copper (211,600 c.m.)	16.56			56,783		
3/0 copper (167,800 c.m.)	3.36			9,149		
2/0 copper (133,079 c.m.)	233.73	2.76	17.25	505,090	5,964	37,277
1/0 copper (105,534 c.m.)	218.64			373,873		
No. 1 copper (83,694 c.m.)	9.00			12,258		
No. 2 copper (66,373 c.m.)	63.69			68,720		
No. 3 copper (52,634 c.m.)	18.42			15,749		
No. 4 copper (41,742 c.m.)	147.87			99,452		
No. 6 copper (26,250 c.m.)	104.34			44,344		
3 x 12 galv. steel (35,643 c.m.)	36.39			18,013		
1/4″ galv. steel (48,223 c.m.)	52.50			34,649		
9/32″ galv. steel (62,200 c.m.)	85.05			71,782		
7/16″ galv. steel (153,200 c.m.)	32.10			70,331		
5/16″ galv. steel (83,200 c.m.)	360.30			399,211		
6 galv. iron (41,000 c.m.)	130.38			80,325		
Totals	9,505.09	256.68	17.25	9,541,654	160,216	37,277

NOTE.—a.c.s-r = Aluminum cable, steel-reinforced. Weights include steel core.

TRANSMISSION LINES

(Excluding High-Voltage Lines)

WEIGHT OF CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Miles of three-circuit lines			Total circuit miles of one, two-, three-, circuit lines completed to Oct. 31, 1931
Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	
0.56									0.56
2.50			11.86						14.36
1.51			35.11						36.62
			1.21						1.21
						4.70			4.70
1.51			5.46						6.97
183.89			36.60						220.49
250.94			206.06						457.00
32.68			14.26						46.94
166.64			37.81						204.45
106.91			3.65						110.56
34.60									34.60
0.70									0.70
51.96			1.82						53.78
77.78									77.78
120.16	4.77		12.17						137.10
57.19			11.15						68.34
33.18			0.81						33.99
265.93	24.18		1.03	0.71					291.85
370.05	41.34		21.94			0.81			434.14
19.00	12.93								31.93
19.82			12.01						31.83
1.25									1.25
17.39			3.63						21.02
0.88			2.32						3.20
			0.56						0.56
		1.75	21.37	0.46	2.00				21.83
51.08			10.90						61.98
3.00									3.00
21.23									21.23
4.80			0.67						5.47
20.25			14.52						34.77
33.78			0.50						34.28
12.13									12.13
17.50									17.50
28.35									28.35
			5.35						5.35
26.82			25.10						51.92
43.46									43.46
2,079.43	83.22	1.75	497.87	1.17	2.00	5.51			2,667.20

This sheet is based on route and wire miles.

TELEPHONE

ERECTED ON WOOD-POLE LINES

GAUGE, LENGTH AND WEIGHT OF ALUMINUM,

Size and material	Wire miles of conductors				Weight in	
	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931
No. 9 B. & S.G. Copper......	398.00	97.18	4.00	495.18	83,182	20,310
No. 10 B. & S.G. Copper......	189.04	0.92	....	189.96	31,381	152
No. 8 B. & S.G. c-c steel.....	117.26	....	....	117.26	28,729	....
No. 10 B. & S.G. c-c steel.....	938.04	....	....	938.04	144,458	....
No. 17 B. & S.G. c-c steel.....	8.12	....	....	8.12	244	....
No. 6 B.W.G. galv. iron......	15.20	....	....	15.20	8,710	....
No. 8 B.W.G. galv. iron......	1.42	....	....	1.42	537	....
No. 9 B.W.G. galv. iron......	1,696.32	....	....	1,696.32	517,268	....
No. 10 B.W.G. galv. iron......	73.08	....	....	73.08	18,270	....
No. 12 B.W.G. galv. iron......	111.54	....	....	111.54	18,404	....
No. 6 a.c.s-r.................	748.54	....	....	748.54	143,719	....
3 x .0661 alum. and 4 x 0661 steel......................	43.60	....	....	43.60	13,646	....
3 x 12 galv. steel.............	88.88	....	....	88.88	43,729	....
3 x 13 galv. steel.............	64.96	....	....	64.96	24,685	....
Totals.................	4,494.00	98.10	4.00	4,592.10	1,076,962	20,462

NOTE.—For telephone lines generally on wood poles and serving 220,000-volt and 110,000-volt power lines, see separate table.

c-c steel = Copper-clad steel. a.c.s.r = Aluminum cable, steel-reinforced.

LINES

CARRYING POWER CONDUCTORS

COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

pounds		Miles of single-circuit lines			Miles of double-circuit lines			Single and double-circuit lines completed to Oct. 31, 1931
Under construction Oct. 31, 1931	Completed to Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	Completed to Oct. 31, 1930	Completed Oct. 31, 1930 to Oct. 31, 1931	Under construction Oct. 31, 1931	
836	103,492	187.74	48.59	2.00	....	....	....	236.33
....	31,533	94.52	0.46	....	....	....	....	94.98
....	28,729	1.94	....	....	15.00	....	....	16.94
....	144,458	469.02	....	....	....	....	....	469.02
....	244	4.06	....	....	....	....	....	4.06
....	8,710	7.60	....	....	....	....	....	7.60
....	537	0.71	....	....	....	....	....	0.71
....	517,268	847.98	....	....	....	....	....	847.98
....	18,270	36.54	....	....	....	....	....	36.54
....	18,404	55.77	....	....	....	....	....	55.77
....	143,719	277.63	....	....	48.32	....	....	325.95
....	13,646	21.80	....	....	....	....	....	21.80
....	43,729	44.44	....	....	....	....	....	44.44
....	24,685	32.48	....	....	....	....	....	32.48
836	1,097,424	2,082.23	49.05	2.00	63.32	....	....	2,194.60

B. & S.G. = Browne & Sharpe Gauge.
B.W.G. = Birmingham wire gauge.

DOMINION POWER AND TRANSMISSION SYSTEM

MILEAGE OF LINES

Type of construction	Total to Oct. 31, 1931
44,000-volt, steel-supported transmission lines	37.37
44,000-volt, wood-supported transmission lines	153.85
22,000-volt, wood-supported transmission lines	28.23
22,000-volt, concrete pole-supported transmission lines	10.55
11,500-volt, wood-supported transmission lines	7.33
10,000-volt, wood-supported transmission lines	6.76
Totals	244.09

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors
	Total to Oct. 31, 1931
605,000 c.m., a.c.s-r	3.93
465,000 c.m. aluminum	58.50
157,500 c.m. copper	372.84
198,600 c.m. copper	10.98
133,079 c.m., copper (2/0)	93.66
105,534 c.m., copper (1/0)	9.33
66,373 c.m., copper (2)	222.33
52,634 c.m., copper (3)	32.41
41,742 c.m., copper (4)	40.59
26,250 c.m., copper (6)	20.28
Totals	884.85

NORTHERN ONTARIO SYSTEM—

WOOD-POLE TELEPHONE LINE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors	
	Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931
6 x .0661 steel 1 x .0661 alum.	60.00	60.00
6 x .0661 alum. 1 x .0661 steel	321.52	321.52
Totals	381.52	381.52

WEIGHT OF POWER CONDUCTORS

Weight in pounds	Miles of single-circuit conductors	Miles of double-circuit conductors	Total miles single- and double-circuit conductors
Total to Oct. 31, 1931	Total to Oct. 31, 1931	Total to Oct. 31, 1931	
16,184	1.31	....	1.31
131,040	19.50	....	19.50
139,815	55.82	34.23	90.05
6,555	....	1.83	1.83
198,840	31.22	....	31.22
15,702	3.11	....	3.11
235,225	49.71	12.20	61.91
43,972	12.27	2.60	14.87
27,033	13.53	....	13.53
8,497	6.76	....	6.76
822,863	193.23	50.86	244.09

SUDBURY DISTRICT

FOR HIGH VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Weight in pounds		Miles of single-circuit lines	Total mileage of single-circuit lines completed to Oct. 31, 1931
Completed Oct. 31, 1930 to Oct. 31, 1931	Total to Oct. 31, 1931	Completed Oct. 31, 1930 to Oct. 31, 1931	
23,640	23,640	30.00	30.00
62,053	62,053	160.76	160.76
85,693	85,693	190.76	190.76

APPENDIX III

DISTRIBUTION LINES AND SYSTEMS

Summaries of Data respecting Rural Distribution Systems, Distribution Feeders, Metering Stations, Distributing Stations and Distributing Systems constructed by the Hydro-Electric Power Commission.

Below is shown in tabular and descriptive form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1931.

This work includes the construction of rural distribution systems, the installation of feeders to supply urban municipalities and the construction of metering equipments.

Work in connection with distribution systems was done by the Commission for certain municipalities, private companies, etc., at the request and at the expense of the parties concerned.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1930		At October 31, 1931	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Niagara system	5,196.7	34,723	6,094.8	40,394
Georgian Bay system—				
Severn district	177.8	1,471	244.3	2,023
Eugenia district	62.5	320	160.4	862
Wasdells district	171.9	1,002	210.3	1,238
Muskoka district	28.2	180	55.3	320
Bala district	15.4	99	31.2	183
Eastern Ontario system—				
Central Ontario district	592.0	4,009	813.7	5,437
St. Lawrence district	300.7	1,880	356.0	2,147
Rideau district	51.2	272	64.8	385
Madawaska district	9.1	8	9.3	53
Ottawa district	116.5	626	165.1	988
Northern Ontario system—				
Nipissing district	4.5	192	9.5	250
Totals	6,726.5	44,782	8,196.7	54,281

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1930		At October 31, 1931	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton	N5D1	3.0	7	7.7	25
Ailsa Craig	N4D7	0.6	2	6.0	18
Alvinston	N18D9	2.5	4	6.5	10
Amherstburg	N15D3	55.5	516	59.6	544
Aylmer	N11D2	96.3	521	97.1	561
Ayr	N12D4	20.3	66	22.7	82
Baden	N7D1	79.6	337	89.2	413
Beamsville	N1D4	129.0	829	135.9	916
Belle River	N15D2	43.4	327	43.4	358
Blenheim	N14D3	46.8	262	56.0	299
Bond Lake	N3D3	121.8	1,143	147.0	1,261
Bothwell	N14D10	30.8	110	35.5	125
Brampton	N13D2	48.2	192	51.6	185
Brant	N12D1	80.9	432	97.3	510
Brigden	N18D8	31.4	96	34.8	110
Burford	N12D2	34.5	180	47.7	257
Caledonia	N2D5	67.0	314	95.1	449
Chatham	N14D1	120.0	708	131.6	786
Chippawa	N1D7	12.2	119	20.6	127
Clinton	N8D11	50.0	287	65.6	359
Delaware	N4D3	116.3	591	120.8	634
Dorchester	N4D1	104.9	529	109.7	551
Dresden	N14D12	20.0	63	24.2	89
Drumbo	N12D5	40.5	215	52.0	247
Dundas	N2D1	85.8	595	92.3	642
Dunnville	N1D9	6.7	40	9.1	60
Dutton	N11D3	30.7	134	46.9	191
Elmira	N7D3	16.4	66	20.0	79
Elora	N5D4	25.0	158	40.6	273
Essex	N15D7	73.6	397	84.2	442
Exeter	N4D6	60.0	504	63.0	551
Forest	N18D6	22.8	70	38.6	134
Galt	N6D2	26.7	233	37.0	290
Georgetown	N5D2	38.2	186	49.1	239
Goderich	N8D2	22.0	100	36.5	172
Grantham	N1D2	47.5	473	51.1	502
Guelph	N5D3	81.4	460	87.1	537
Haldimand	N2D8	28.9	162	49.8	246
Harriston	N8D5	7.0	37	23.0	57
Harrow	N15D4	64.4	516	66.9	588
Ingersoll	N10D3	147.6	522	182.1	656
Jordan	N1D3	29.2	258	32.9	342
Keswick	N3D5	31.4	754	53.6	888
Kingsville	N15D5	114.3	1,217	127.2	1,305
Listowel	N8D8	41.6	216	49.2	555

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1930		At October 31, 1931	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Continued					
London	N4D2	177.0	1,798	184.2	1,938
Lucan	N4D5	32.7	112	33.0	117
Lynden	N2D2	42.1	200	51.0	239
Markham	N3D1	88.9	632	102.2	746
Merlin	N14D15	50.4	181	77.9	289
Milton	N13D3	37.6	240	45.9	365
Milverton	N8D9	19.1	92	36.0	162
Mitchell	N8D7	52.5	292	64.3	344
Newmarket	N3D4	40.8	250	55.1	316
Niagara	N1D1	43.3	259	46.1	290
Norwich	N10D1	85.6	397	90.5	417
Oil Springs	N18D3	14.9	91	14.9	96
Palmerston	N8D6	23.8	69	32.9	101
Petrolia	N18D5	13.7	54	14.5	57
Preston	N6D1	124.9	842	139.0	926
Ridgetown	N14D2	93.2	634	104.1	677
St. Marys	N9D1	90.0	266	111.0	428
St. Jacobs	N7D2	54.9	298	65.7	367
St. Thomas	N11D1	132.0	977	154.1	1,072
Saltfleet	N17D1	81.0	952	84.2	1,033
Sandwich	N15D1	119.3	2,048	125.7	2,145
Sarnia	N18D4	83.0	1,033	87.5	1,137
Scarboro	N3D2	62.9	464	76.2	584
Seaforth	N8D10	7.3	124	11.3	134
Simcoe	N12D6	36.6	226	64.1	314
Stamford	N1D6	12.2	287	12.6	289
Stratford	N8D4	34.1	231	35.3	226
Strathroy	N4D4	62.2	169	78.3	238
Streetsville	N13D1	90.9	349	96.0	386
Tavistock	N8D1	68.5	269	79.5	317
Thamesville	N14D11	47.0	183	62.9	251
Tilbury	N14D14	33.9	147	50.1	251
Tillsonburg	N10D4	101.0	516	108.4	553
Wallaceburg	N14D13	74.5	421	83.2	537
Walsingham	N12D7	44.5	235	67.0	359
Walton	N8D3	28.4	173	53.4	229
Waterdown	N2D3	31.2	311	36.0	364
Waterford	N12D3	48.7	198	64.4	257
Watford	N18D7	17.0	49	17.6	57
Welland	N1D5	238.1	2,224	264.5	2,534
Woodbridge	N16D1	180.5	898	188.1	974
Woodstock	N10D2	119.8	584	127.3	614

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

GEORGIAN BAY SYSTEM

Rural power district	Property number	At October 31, 1930		At October 31, 1931	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
SEVERN DISTRICT					
Alliston	S32D1	20.0	120	23.3	133
Barrie	S4D1	35.3	274	51.3	402
Beeton	S33D1	0.3	1	0.3	1
Bradford	S37D1	0.7	3	22.2	72
Buckskin	S24D1	0.9	15	0.9	15
Cookstown	S35D1	....	....	0.5	2
Creemore	S10D2	8.8	0	19.3	64
Elmvale	S7D1	23.3	107	25.5	151
Hawkestone	S9D1	21.9	104	26.0	110
Innisfil	S31D1	26.0	262	27.7	355
Medonte	S18D1	2.2	18	8.3	50
Midland	S1D1	9.7	34	10.1	39
Nottawasaga	S5D1	7.8	87	7.8	90
Thornton	S36D1	7.5	31	8.0	30
Wasaga Beach	S10D1	13.4	415	13.1	509
EUGENIA DISTRICT					
Arthur	E13D2	0.4	3	2.4	9
Bruce [a]	E19D1	....	....	39.1	161
Chatsworth	E3D1	0.0	21	0.0	22
Flesherton	E1D1	1.6	32	1.6	32
Holstein	E7D1	0.0	1	0.5	6
Lucknow	E24D1	0.1	2	0.1	2
Markdale	E1D2	1.0	2	13.6	60
Meaford	E14D1	0.8	2	0.8	2
Neustadt	E8D1	0.3	1	0.5	4
Orangeville	E12D1	10.9	27	20.2	76
Owen Sound	E2D1	....	....	1.3	12
Ripley	E24D2	0.4	2	4.0	11
Shelburne	E10D1	2.4	11	6.9	26
Sauble	E46D1	....	....	10.0	60
Tara	E15D1	23.5	98	23.5	112
Wroxeter	E22D1	19.5	113	35.9	267
WASDELLS DISTRICT					
Beaverton	W2D1	2.8	21	6.1	34
Cannington No. 1	W3D1	3.8	24	4.0	24
Cannington No. 2	W3D2	4.7	22	5.6	22
Georgina	W2D2	10.0	85	15.5	107
Mariposa	W9D1	42.8	277	46.9	310
Port Perry	W12D1	42.6	260	48.5	314
Sparrow Lake	W1D1	18.6	144	27.4	203
Uxbridge	W11D1	46.6	169	60.3	224
MUSKOKA DISTRICT					
Beaumaris	M7D1	18.5	131	22.3	173
Huntsville	M2D1	....	....	15.0	63
Utterson	M8D1	9.7	49	18.0	84
BALA DISTRICT					
Bala	GB13D1	15.4	99	31.2	183

[a] 1.6 miles—5 consumers—Transferred from Walkerton Quarries R.P.D.

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

EASTERN ONTARIO SYSTEM

Rural power district	Property number	At October 31, 1930		At October 31, 1931	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Central Ontario District					
Belleville	C38D1	63.1	531	80.7	626
Bowmanville	C23D1	16.7	26	28.7	117
Brighton	C6D1	5.5	30	9.2	42
Campbellford	C11D1	17.5	60	22.0	84
Cobourg	C13D1	62.0	275	67.4	307
Colborne	C7D1	21.5	111	23.4	130
Fenelon Falls	C30D1	....	....	18.5	113
Kingston	C44D1	58.7	301	91.3	563
Lakefield	C18D1	0.0	1	16.7	59
Lindsay	C29D1	0.6	2	4.9	23
Millbrook	C25D1	11.7	61	16.1	71
Napanee *b*	C43D1	47.5	128	79.6	403
Newcastle	C22D1	18.6	106	25.9	115
Norwood	C31D1	3.9	38	7.4	52
Oshawa	C24D1	60.6	743	86.0	826
Omemee	C26D1	....	....	3.0	2
Peterborough	C20D1	47.0	874	57.8	947
Pickering	C24D2	13.8	174	16.7	193
Port Hope	C16D1	16.7	88	19.3	97
Stirling	C35D1	26.7	100	26.7	105
Trenton	C3D1	39.7	171	41.4	193
Warkworth	C49D1	0.4	3	0.4	6
Wellington	C45D1	59.5	185	88.6	363
St. Lawrence District					
Alexandria	L15D1	8.1	48	16.9	78
Brockville	L3D1	69.3	468	87.6	598
Chesterville	L5D1	46.5	368	46.5	318
Iroquois	L9D1	80.0	391	80.5	397
Martintown	L13D1	16.3	112	20.0	147
Maxville	L14D2	40.3	269	58.3	349
Prescott	L2D1	29.5	164	34.8	205
Williamsburg	L7D1	10.7	60	11.4	55
Rideau District					
Perth	H2D1	....	....	8.6	38
Smiths Falls	H3D1	48.7	272	51.3	314
Kemptville	H9D1	2.5	0	4.9	33
Madawaska District					
Arnprior	QM10D1	3.6	0	4.2	44
Renfrew	QM16D1	5.5	8	5.1	9
Ottawa District					
Nepean	T1D1	116.5	626	165.1	988

b .03 miles and 1 consumer—Transferred from Deseronto R.P.D.

NORTHERN ONTARIO SYSTEM

Nipissing District					
North Bay	Z4D1	4.5	192	8.5	250
Powassan	Z8D1	....	....	1.0	....

DISTRIBUTION FEEDER CONSTRUCTION

During the year ending October 31, 1931 the following work was carried on in connection with distribution feeders.

N 246 x 15—Decewsville Distributing Station to Cayuga

Three-fourths of a mile of line was purchased from Cayuga Hydro Electric System as of August 31, 1931.

N 342 x 13—Bond Lake Distributing Station to Richmond Hill

This line was transferred to Bond Lake Rural Power District as of July 1, 1931.

N 342 x 14—Bond Lake Distributing Station to Aurora.

Circuits and crossarms were rearranged and the line transferred to Bond Lake Rural Power District as of July 1, 1931.

N 346 x 14—Newmarket Distributing Station to Aurora

Circuits and crossarms were rearranged on three miles of this line and it was transferred to Newmarket R.P.D. as of July 1, 1931, the remainder of the line was dismantled.

N 349 x 84—Keswick Distributing Station to Sedore Junction.
N 384 x 20—Sedore Junction to Sutton.

These lines were transferred to Keswick R.P.D. as of July 1, 1931.

N 443 x 14—Exeter Distributing Station to Hensall

New conductors were strung, new crossarms erected and storm guying added to this line. The work was complete November 29, 1930.

N 1135 x 6—West Lorne Distributing Station to Rodney.

A new line was constructed and the existing circuits on the N 11 x 14—High Tension Telephone poles were removed. The line is 4.00 miles long and the work was completed September 30, 1931.

N 1545 x 19—Leamington Distributing Station to Wheatley.

The conductors on this line were changed. The work was completed April 10, 1931.

H 12 x 1201—Forfar Distributing Station to Westport.

A new 4,600-volt line is being constructed to supply the Village of Westport. The work was 90% complete at October 31, 1931.

E 48 x 4832—Walkerton Rural Station to Otter Creek Station.

Capital was set up in this line which was taken over from the Foshay interests.

C 31 x 3103—Norwood Distributing Station to Hastings.

A new 4,000/2,300-volt line was constructed to supply the Village of Hastings. The line is approximately 5 miles long and the work was completed May 24, 1931.

C 70 x 7001—Napanee Rural Station to Bath.

A new 4,600-volt line is being constructed to supply the Village of Bath. The line is approximately 12.5 miles long and was 75% complete at October 31, 1931.

M 862 x 63—Rosseau Junction to Rosseau.

A new 8,000/4,600-volt line was constructed to serve the village of Rosseau. The line is approximately 9.5 miles long and the work was completed August 6, 1931.

STATIONS CONSTRUCTED

Station	Property number	Date work was completed	Transforming or measuring power for
NIAGARA SYSTEM			
Caledonia	N2D35	Nov. 1, 1931	Caledonia R.P.D. (Part).
Davis Leather	N347	July 15, 1931	Davis Leather Company.
Lambeth *a*	N433	Jan. 8, 1931	Lambeth.
Rodney	N1136	Sept. 31, 1931	Rodney.
GEORGIAN BAY SYSTEM			
SEVERN DISTRICT			
Alliston *b*	S32D31	Jan. 22, 1931	Alliston R.P.D.
Creemore	S1032	Oct. 21, 1931	Creemore.
EUGENIA DISTRICT			
Shelburne R.P.D.	S10D31	Feb. 12, 1931	Shelburne R.P.D. (Part).
Orangeville *c*	E12D31	Nov. 27, 1930	Orangeville R.P.D.
MUSKOKA DISTRICT			
Huntsville	M2D31	July 25, 1931	Huntsville R.P.D. (Part).
Rosseau	M833	July 17, 1931	Rosseau.
EASTERN ONTARIO SYSTEM			
CENTRAL ONTARIO DISTRICT			
Bowmanville	C23D31	Mar. 26, 1931	Bowmanville R.P.D. (Part).
Cameron Rural	C2932	Jan. 2, 1931	Lindsay R.P.D. (Part).
Norwood	C31D31	June 28, 1931	Norwood R.P.D. (Part).
Hall Rural	C2933	June 19, 1931	Lindsay R.P.D. (Part).
ST. LAWRENCE DISTRICT			
Chesterville *d*	L5D31	April 16, 1931	Chesterville R.P.D. (Part).
Maxville	L14D32	Jan. 16, 1931	Maxville R.P.D. (Part).
RIDEAU DISTRICT			
Kemptville R.P.D.	H9D31	Nov. 1, 1930	Kemptville R.P.D.

a Moved to new location.
b Moved to new location and changed to 3-phase.
c Changed from single to three-phase.
d New AD ammeters installed.

The following work was done for Municipalities and outside parties:

Municipality or Party	Date work completed	Nature of work
Township of Medonte	June 25, 1931	Street lights—Hillsdale.
Township of Sandwich South	Mar. 14, 1931	Street lights—Roseland.
Township of Erin and East Garafraxa	Aug. 26, 1931	Street lights—Orton.
Lambeth	Jan. 8, 1931	Extend local system.
Creemore	Oct. 21, 1931	Recondition local system.
Port Elgin	Sept. 26, 1931	Reconstruction local system.
Wiarton	Sept. 19, 1931	Reconstruction local system.
Hastings	July 2, 1931	Reconstruction local system.
Rosseau	Aug. 5, 1931	Construction local system.
Port Carling	July 4, 1931	Extend local system.

APPENDIX IV

GENERATING STATIONS

Owned by the Co-operating Municipalities and Operated on Their Behalf by the Hydro-Electric Power Commission of Ontario

During the past few years the Commission has constructed several hydro-electric generating plants, has acquired others by purchase and has made additions and alterations to some of those earlier owned.

In the following tabulation, the generating stations are grouped under the systems to which they respectively belong, and particulars are given of the hydraulic features of the developments, the main turbines, the main generators, the exciters and the step-up transformers.

The present statement is published for purpose of permanent record. Usually there is relatively little change from year to year in the generating equipment listed. This Appendix if published again will only be after the lapse of such a period as would make further publication desirable.

Abbreviations

h.p.	horsepower
kw.	kilowatts
kv-a.	kilovolt-amperes
kv.	kilovolts
ft.	foot or feet

NIAGARA SYSTEM

General—This system comprises all the territory lying between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west and north served with electrical energy generated at plants on the Niagara river, and the Ottawa river at Chats falls and supplemented by purchased power transmitted from the Gatineau river.

Transmission Lines—220 kv. 603.6 miles; 110 kv. 800.7 miles; 90 kv. to 12 kv. 1,384.8 miles. Less than 12 kv. not included.

Transformation—Total capacity in 155 stations owned by the Commission = step up 859,700 kv-a. in 5 stations; step down = 1,087,370 kv-a. in 1-220 kv., 25-110 kv. transformer stations, 123 distributing stations, and 10,000 kv-a. in 1 auto transformer station.

Generation

Queenston Generating Station

Situated at Queenston on the Niagara river. Constructed by Commission. Official opening 28 December, 1921. Commercial operation 26 January, 1922. Intake at Chippawa, at mouth of Welland river (Grass Island Pool) above Niagara Falls. Water conveyed through canal 12¾ miles long, 4¼ miles of which from intake to Montrose consists of channel of Welland river, widened and deepened, flow being reversed; remaining 8½ miles excavated concrete lined canal to forebay at Queenston, thence down the face of the cliff through penstocks provided with automatically operated Johnson valves, to the turbines. Net operating head 294 ft.

Main Turbines—Two 52,500 h.p. Wellman-Seaver-Morgan; three 55,000 h.p. William Cramp; five 58,000 h.p. Dominion Engineering Works. Total capacity 560,000 h.p.

Auxiliary Turbines—Two 2,800 h.p. Canadian Allis-Chalmers. Total capacity 5,600 h.p.

Main Generators—Three 45,000 kv-a.. two 55,000 kv-a. Canadian Westinghouse Company, two 45,000 kv-a., three 54,000 kv-a. Canadian General Electric Company, 3-phase, 25 cycles, 12 kv. vertical shaft with thrust bearing. Total capacity 497,000 kv-a.

Auxiliary Generators—Two 2,200 kv-a. Canadian Westinghouse Company, 3-phase, 2,300 volts vertical shaft. Total capacity 4,400 kv-a.

Exciters—Five 150 kw.; five 180 kw. direct connected to main generators, two 30 kw. direct connected to auxiliary generators.

Transformers—Five banks = fifteen 15,000 kv-a., five banks = fifteen 18,333 kv-a. Canadian Westinghouse Company, single-phase, 12 to 63.5 kv. to operate 110 kv. star connected. Total capacity 500,000 kv-a.

Ontario Power Generating Station

Situated in Queen Victoria Niagara Falls park below Horseshoe falls. Formerly property of Ontario Power Company. In operation July, 1905. Purchased by Commission August, 1917. Intake and headworks at first cascade of upper rapid, one mile above generating station. Water conveyed through three conduits of steel, concrete, and wood-stave respectively to distributors from which steel penstocks lead through rock cliff to turbines. Net operating head 180 ft.

Main Turbines—Seven 11,700 h.p., five 13,400 h.p. Voith, two 13,400 h.p. Wellman-Seaver-Morgan, one 20,000 h.p. S. Morgan Smith inward flow, horizontal, twin type. Total capacity 195,700 h.p.

Auxiliary Turbines—Two 1,600 h.p. Canadian Allis-Chalmers, two 500 h.p. Jenckes Machine Co. Total capacity 4,200 h.p.

Main Generators—Seven 8,776 kv-a., one 15,000 kv-a. Canadian General Electric Company, four 8,770 kv-a., three 7,500 kv-a. Westinghouse Electric & Manufacturing Company, 3-phase, 25 cycles, 12 kv. Total capacity 134,012 kv-a.

Auxiliary Generators—Two 375 kw. Westinghouse Electric and Manufacturing Company, two 1,060 kw. Allis-Chalmers Bullock. Total capacity 2,870 kw.

Exciters—Six 40 kw.; ten 60 kw.; three 125 kw. Canadian General Electric Company motor driven.

Transformers—Four banks = twelve 3,000 kv-a., 12 kv. to 60 kv.; Two banks = six 3,000 kv-a., 12 to 30 kv. single-phase Canadian Westinghouse Company. Total capacity 54,000 kv-a.

Toronto Power Generating Station

Situated in Queen Victoria Niagara Falls park above the Horsehoe falls. Formerly owned by Toronto Power Company. In operation 1906-07. Purchased by Commission 1922. Water collected by wing dam conveyed to turbines from head works through steel penstocks. Tail race tunnelled through solid rock discharging under Niagara Falls. Net operating head 135 ft.

Main Turbines—Seven 15,500 h.p., four 13,000 h.p. William Cramp. Total capacity 160,500 h.p.

Auxiliary Turbines—Two 500 h.p. Morris vertical shaft. Total capacity, 1,000 h.p.

Main Generators—Two 8,000 kv-a., General Electric Company; two 8,000 kv-a.; seven 10,000 kv-a. Canadian General Electric Company, 3-phase, 25 cycles, 12 kv. vertical shaft. Total capacity 102,000 kv-a.

Auxiliary Generators—Three 300 kw. Canadian General Electric Company, 125 volts, two turbine driven and one motor driven.

Exciters—Eleven 50 kw., 125 volts direct connected to main generators.

Transformers—Three banks = nine 2,670 kv-a., two banks = six 6,000 kv-a. 12 to 60 kv. Canadian General Electric Company, single-phase. Total capacity 60,030 kv-a.

Chats Falls Generating Station

Situated on the Ottawa river thirty miles upstream from the city of Ottawa. Plant controlled and owned jointly by the Hydro-Electric Power Commission of Ontario and the Ottawa Valley Power Company. First four units ready for operation October, 1931. Power house and intake integral with dam. Combined length of dam and power house approximately three miles. Power fed at generator voltage to adjacent outdoor transformer station, where it is stepped up to 220 kv. for transmisson over the Commission's line to Toronto. Designed operating head 53 feet.

Main Turbines—Eight 28,000 h.p. Dominion Engineering Works, Limited, propeller type, vertical shaft. Total capacity 224,000 h.p.* Plant designed for an ultimate installation of ten units.

Main Generators—Eight 23,500 kv-a. Canadian Westinghouse Company, 3-phase, 25 cycles, 13.2 kv. vertical shaft.*

Exciters—Eight 200 kw., 250 volts, Canadian Westinghouse Company, direct connected to main generators.

Transformers—Four banks = twelve 15,700 kv-a. Canadian General Electric Company, 220 kv. to 13.2 kv., 25 cycles, single-phase. Total capacity 188,400 kv-a.

DOMINION POWER AND TRANSMISSION SYSTEM

(In process of incorporation with the Niagara system)

General—This system comprises certain urban and rural districts in the vicinity of the cities of St. Catharines, Hamilton and Brantford formerly served by subsidiaries of the Dominion Power and Transmission Company. Properties including generating plants, transmission lines and substations were purchased in April ,1930. Power is obtained from an hydraulic development at Decew Falls and a steam plant at Hamilton. Twenty-five-cycle power is also purchased from Canadian Niagara Power Company and converted to 66.6 cycles at Niagara Falls.

Transmission Lines—Forty-four kv. 191.2 miles, 22 kv. to 10 kv. 52.9 miles. Less than 10 kv. not included.

Transformation—Total capacity in 21 stations owned by the Commission = step-up 79,200 kv-a. in 3 stations; step-down 30,950 kv-a. in 18 transformer stations.

Generation

Decew Falls Generating Station

Situated at Power Glen about two miles from St. Catharines. Formerly owned by Dominion Power and Transmission Company. In operation August, 1898. Purchased by the Commission in April 1930. Water supplied from Welland ship canal to forebay, thence through seven steel penstocks to turbines. Tail water passes by natural stream channel to Lake Ontario. Net operating head 260 ft.

Main Turbines—Six 7,000 h.p., one 3,500 h.p. Voith, two 3,000 h.p. Riva Monneret. Total capacity 51,500 h.p.

Auxiliary Turbines—Two 40 h.p., one 750 h.p. Total capacity 830 h.p.

Main Generators—One 2,500 kv-a., four 6,400 kv-a., Canadian Westinghouse Company, two 5,000 kv-a., Westinghouse Electric and Manufacturing Company, two 2,000 kv-a., Canadian General Electric Company, 3-phase, 66.6 cycles, 2,400 volts. Total capacity 42,600 kv-a.

Auxiliary Generator—One 500 kv-a. Canadian Westinghouse Company.

Exciters—One 100 kw. Canadian Westinghouse Company, three 100 kw. Westinghouse Electric and Manufacturing Company, motor driven, one 40 kw. Canadian General Electric Company belt-driven from main generator, two 30 kw. Royal Electric Company direct connected to auxiliary turbines, 70 volts.

Transformers—Two banks = six 2,000 kv-a. Canadian Westinghouse Company 2.4 to 24 kv., five 2,500 kv-a., four 3,200 kv-a. Westinghouse Electric and Manufacturing Company, one 2,500 kv-a., two 3,200 kv-a. Canadian Westinghouse Company, 66.6 cycles, 2.4 to 45 kv. Total capacity 46,200 kv-a.

Steam Plant at Hamilton

Situated on Burlington Bay at the north-eastern limits of the city of Hamilton. Formerly property of Dominion Power and Transmission Company. In operation 1916. Purchased by the Commission in April, 1930. Coal-fired boilers supply steam to direct connected turbo alternators.

Main Steam Turbines—Two 14,750 h.p. Westinghouse Machine Company. Total capacity 29,500 h.p.

Auxiliary Steam Turbines—One 75 kw. direct connected to exciter. Two pump units.

Main Generators—Two 12,500 kv-a. Westinghouse Electric and Manufacturing Company turbo alternators, 3-phase, 66.6 cyles, 6.6 kv. Total capacity 25,000 kv-a.

Exciters—One 75 kw. Westinghouse Electric and Manufacturing Company, steam turbine driven, two 75 kw. Canadian Westinghouse Company motor driven, 125 volts.

Transformers—Two banks = six 4,000 kv-a., 6.6 to 42 kv., single-phase Canadian Westinghouse Company. Total capacity 24,000 kv-a.

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*In process of installation.

Frequency Changer Station at Niagara Falls

Situated at Niagara Falls. In operation 1924. Purchased by the Commission in April, 1930. Power supplied to motor at 25 cycles.

Motor—One 8,200 kv-a., 3-phase, 25 cycles, 12 kv. Canadian Westinghouse Company.

Generator—One 9,000 kv-a., 3-phase, 66.6 cycles, 13.2 kv. Canadian Westinghouse Company.

Exciter—One 90 kw., 125 volts, direct connected.

Transformers—One bank = three 3,000 kv-a. Canadian Westinghouse Company single-phase, 13.2 to 48 kv. Total capacity 9,000 kv-a.

GEORGIAN BAY SYSTEM

General—This system comprises the area adjoining on the north that section of country served by the Niagara System. It is a consolidation of what were formerly four systems known respectively as Severn, Eugenia, Wasdells and Muskoka, to which have been added properties and plants purchased from private interests and incorporated into the system as the Bruce and Bala districts. Power is obtained from developments on the Severn, Beaver, Muskoka and Saugeen rivers supplemented by purchased power from the Orillia Municipal plant. Additional power is provided from the Niagara System through frequency changers at Mount Forest and Hanover.

Severn District adjoins the Niagara System on the south and is the central portion of the system. Power developments in the district are on the Severn and Muskoka rivers.

Eugenia District also adjoins the Niagara System on the south and the Severn District on the east. Power developments are on the Saugeen and Beaver rivers.

Wasdells District is the south-eastern portion of the system with developments on the Severn river.

Muskoka District is the north-eastern portion of the system with developments on the Muskoka river.

Bala District serves a small section of territory situated geographically in the Muskoka District.

Bruce District is the north-western portion of the system with developments on the Saugeen river.

All districts are now interconnected by tie lines so that eleven generating stations operate in parallel through one network of transmission lines. The bulk of power is transmitted at 22 kv. but one tie line operates at 38 kv. with auto transformers at one end.

Transmission Lines—110 kv. 55.8 miles, 38 kv. 54.28 miles, 22 kv. and less 608.1 miles. Less than 6.6 kv. not included.

Transformation—Total capacity in 75 stations owned by the Commission = step up 20,212 kv-a. in 7 stations; step down 26,170 kv-a. in 63 transformer stations, 10,500 kv-a. in 3 auto transformer stations, and 8,400 kv-a. in 2 frequency changer stations.

Generation

Severn District

Big Chute Generating Station

Situated at Big Chute on the Severn river. Formerly the property of the Simcoe Railway and Power Company. In operation 1909. Purchased by the Commission in July, 1914. Water conveyed to forebay by canal and thence to power house by two steel penstocks. Average operating head 56 feet.

Main Turbines—Three 1,300 h.p. William Hamilton, one 2,300 h.p. Wellman-Seaver-Morgan horizontal shaft. Total capacity 6,200 h.p.

Auxiliary Turbines—Two 150 h.p. William Hamilton.

Main Generators—Three 900 kv-a. Canadian Westinghouse Company; one 1,600 kv-a. Canadian General Electric Company, 3-phase, 60 cycle, 2,200 volts, horizontal shaft. Total capacity, 4,300 kv-a.

Exciters—Two 100 kw. Canadian Westinghouse, 125 volts, turbine driven.

Transformers—Two banks = six 600 kv-a. Canadian Westinghouse Company, 2.2 to 22 kv. Total capacity 3,600 kv-a.

Eugenia District

Eugenia Falls Generating Station

Situated at Eugenia Falls on the Beaver river. Power rights purchased by Commission from Georgian Bay Power Company in 1914. Plant installed by Commission. In operation in November, 1915. Water is conveyed to plant through canal, two wood-stave pipe lines and two steel penstocks, each provided with surge tank. Average operating head 550 ft.

Main Turbines—One 4,000 h.p. Allis-Chalmers; two 2,250 h.p. Escher Wyss horizontal shaft. Total capacity 8,500 h.p.

Main Generators—One 2,820 kv-a.; two 1,410 kv-a. Canadian Westinghouse, 3-phase, 60 cycles, 4,000 volts. Total capacity 5,640 kv-a.

Exciters—One 40 kw.; two 30 kw. Canadian Westinghouse direct connected to generators.

Transformers—Two banks = six 900 kv-a. Canadian Westinghouse Company, 4 to 22 kv. Total capacity 5,400 kv-a.

Hanover Generating Station

Situated in the town of Hanover on Saugeen river. Formerly owned by Canada Cement Company. In operation about 1900. Purchased by Commission February, 1929. Water conveyed through canal to head works at power house. Operating head 17 to 18 ft.

Main Turbines—Two 175 h.p. William Hamilton. Total capacity 350 h.p.

Main Generators—Two 150 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 4,000 volts. Total capacity 300 kv-a.

Exciter—One 13 kw. Canadian General Electric Company, 125 volts.

WASDELLS DISTRICT

Wasdells Falls Generating Station

Situated at Wasdells Falls on the Severn river. Constructed by Commission. In operation October, 1914. Power house and intake integral with dam. Average operating head 12 ft.

Main Turbines—Two 600 h.p. Boving vertical shaft. Total capacity 1,200 h.p.

Auxiliary Turbines—One 55 h.p. Boving.

Main Generators—Two 400 kv-a. Swedish General Electric Company, 3-phase, 60 cycle, 2,300 volts vertical shaft. Total capacity 800 kv-a.

Exciters—One 20 kw. turbine driven, one 30 kw. motor driven Swedish General Electric Company, 125 volts.

Transformers—Two banks = six 150 kv-a., Canadian Westinghouse Company, single-phase, 2.3 to 22 kv. Total capacity 900 kv-a.

MUSKOKA DISTRICT

South Falls Generating Station

Situated at South Falls on Muskoka river. Purchased from the municipality of Gravenhurst on 1st November, 1915. Remodelled and enlarged in 1916 and again in 1924. Water conveyed from intake by three wood-stave pipe lines. Average operating head 107 ft.

Main Turbines—One 1,000 h.p. William Hamilton, two 2,200 h.p. William Kennedy horizontal shaft. Total capacity 5,400 h.p.

Main Generators—One 750 kv-a. Canadian General Electric Company, two 2,000-kva. Bruce Peebles, 3-phase, 60 cycles, 6,600 volts, horizontal shaft.

Exciters—Two 18 kw. Bruce Peebles, one 12 kw. Canadian General Electric Company direct connected to main generators, one 20 kw. Canadian General Electric Company motor-driven 125 volts.

Transformers—Two banks = six 1,200 kv-a.; 6.6 kv. to 38 kv., one bank = three 400 kv-a., 6.6 kv. to 22 kv. Canadian General Electric Company. Total capacity 8,400 kv-a.

Hanna Chute Generating Station

Situated at Hanna Chute on the Muskoka river about one-half mile up stream from South Falls plant and remote controlled from that point. Constructed by Commission. In operation October, 1926. Power fed at generator voltage to South Falls step-up transformers. Power house and intake integral with dam. Average operating head 30 ft.

Main Turbines—One 1,550 h.p. Dominion Engineering Works propeller type, vertical shaft.

Main Generators—One 1,400 kv-a., Swedish General Electric Company, 3 phase, 60 cycles, 6,600 volts with thrust bearing on vertical shaft.

Exciters—One 23 kw. direct connected to generator.

Trethewey Falls Generating Station

Situated at Trethewey Falls on Muskoka river about 2¼ miles up stream from South Falls plant and remote controlled from that point. Constructed by Commission. In operation September, 1929. Power fed at generator voltage to South Falls step up transformers. Power house and intake integral with dam. Average operating head 35 ft.

Main Turbines—One 2,300 h.p. S. Morgan Smith-Inglis propeller type vertical shaft.

Main Generators—One 2,000 kv-a. Swedish General Electric Company, 3-phase, 60 cycles, 6,600 volts with spring-type thrust bearing on vertical shaft.

Exciters—One 24 kw. direct connected to generator.

BALA DISTRICT

Bala Generating Station No. 1

Situated in the town of Bala on Muskoka river. Formerly property of Bala Electric Light and Power Company. In operation 1917. Purchased by Commission in 1929. Water from Muskoka lake conveyed through canal to head works at power house. Operating head about 19 ft.

Main Turbines—Two 160 h.p. William Hamilton horizontal shaft. Total capacity 320 h.p.

Main Generators—One 125 kv-a., one 150 kv-a., Canadian General Electric, 3-phase, 60 cycles, 2,300 volts. Total capacity 275 kv-a.

Exciters—One 5 kw. Canadian General Electric Company, one 12.5 kw. Canadian Westinghouse Company, 125 volts, belt driven from main units.

Bala Generating Station No. 2

Situated in the town of Bala on Muskoka river a short distance from Bala station No. 1 and remote controlled from that point. Formerly property of Bala Electric Light and Power Company. In operation 1924. Purchased by Commission in 1929. Water from Muskoka lake conveyed to plant through short flume to head works at power house. Operating head about 19 ft.

Main Turbine—One 400 h.p. William Hamilton propeller-type vertical shaft.

Main Generators—One 312.5 kv-a. Canadian General Electric 3-phase, 60 cycles, 2,300 volts. Total capacity 312.5 kv-a.

Exciter—One 8 kw. Canadian General Electric, 125 volts, direct connected to main unit.

Transformers—One bank = three 50 kv-a. Canadian General Electric Company 2,300 to 13,200 volts; one bank = three 150 kv-a. Moloney Electric Company 2,300 to 6,600 volts, single-phase, 60 cycles. Total capacity 600 kv-a.

BRUCE DISTRICT

Southampton Generating Station

Situated at Indian rapids on Saugeen river about three miles above Southampton. Formerly owned by Foshay interests. In operation 1897. Purchased by Commission 1930. Power house and intake integral with dam. Operating head 11 ft.

Main Turbines—One 150 h.p. William Hamilton; one 300 h.p. William Kennedy. Total capacity 450 h.p.

Main Generators—One 188 kv-a. Swedish General Electric Company, 2,300 volts; one 200 kv-a. Canadian General Electric Company, 6,600 volts, 3-phase, 60 cycles. Total capacity 388 kv-a.

Exciters—One 9 kw., one 25 kw. Canadian General Electric Company, one 7½ kw. Canadian Westinghouse Company, 125 volts, belt driven from main units.

Transformers—Three 150 kv-a., 2,300 to 22,000 volts, Moloney Electric Company, single-phase, 60 cycles. Total capacity 450 kv-a.

Walkerton Generating Station

Situated on Saugeen river about two miles above the town of Walkerton. Formerly owned by Foshay interests. In operation 1894. Purchased by Commission 1930. Water conveyed through canal to head works at power house. Operating head about 12 ft.

Main Turbines—One 275 h.p. William Kennedy, one 300 h.p. Boving. Total capacity 575 h.p.

Main Generators—One 150 kv-a., one 200 kv-a. Swedish General Electric Company, 3-phase, 2,300 volts direct connected to turbines. Total capacity 350 kv-a.

Exciters—One 25 kw. Canadian Westinghouse Company motor driven, one 12 kw. turbine driven, one 20 kw. belt driven from main unit, Swedish General Electric Company, 125 volts.

Transformers—One 750 kv-a. Packard Electric Company, 3-phase, 2.3 kv. to 22 kv. Total capacity 750 kv-a.

EASTERN ONTARIO SYSTEM

GENERAL—This system comprises that portion of the province east of the areas served by the Georgian Bay and Niagara systems. It is a consolidation of what was formerly the Central Ontario and Trent system with the St. Lawrence, Rideau, Ottawa and Madawaska systems. Power is obtained from developments on the Trent, Madawaska and Mississippi rivers supplemented by purchased power from the St. Lawrence and Gatineau rivers. The Gatineau power is obtained on contract over a 110 kv. transmission line, owned by the Commission, which connects with the lines of the Gatineau Power Company at the inter-provincial boundary near the west city limits of Ottawa, and extends to step-down stations at Smiths Falls and Kingston from which it is distributed to the respective districts. The line is tapped near the south-west limits of the city of Ottawa to connect with a step-down station which supplies its share of power to the municipality.

Complete interconnection and paralleling of the various generating stations does not normally obtain but interchange of power between different sections is possible.

The *Central Ontario District* is the most westerly district of the system. Power in this district is obtained from developments on the Trent river and its tributaries. The generators are connected through step-up transformers and thus operate in parallel through one network of transmission lines. Power is also purchased from the municipality of Campbellford and in emergencies from the Peterborough Hydraulic Power Company and the Canadian General Electric Company. Originally this area was served by subsidiary companies of the Electric Power Company but by agreement, 10th March, 1916, under the provisions of the Central Ontario Power Act of 1916 the Commission assumed control of the interests and properties of these companies. In addition to the generation and distributing systems these included two waterworks systems, three gas plants, and one pulp mill. The companies included in this agreement were:—Auburn Power Company, Limited; Central Ontario Power Company, Limited; City Gas Company of Oshawa, Limited; Cobourg Utilities Corporation Limited; Cobourg Gas, Light & Water Company; Eastern Power Company, Limited; Light, Heat & Power Company of Lindsay; Napanee Gas Company Limited; Napanee Water & Electric Company, Northumberland Pulp Company Limited; Peterborough Radial Railway Company; Port Hope Electric Light & Power Company; Seymour Power & Electric Company Limited; Sidney Electric Power Company Limited; Trenton Electric & Water Company Limited; Tweed Electric Light & Power Company Limited; Nipissing Power Company and North Bay Light, Heat & Power Company Limited; of these the last two are part of the Nipissing system.

The *St. Lawrence district* is the most easterly district of the system. There are no developments owned by the Commission in this district, power being purchased from the Cedar Rapids Transmission Company. It is delivered at 110 kv. to the Commission's transformer station at Cornwall where it is stepped down for transmission through the 44 kv. network to the various municipalities.

The *Rideau district* comprises the area between the Central Ontario and the St. Lawrence districts. Power developed in the district is obtained from developments on the Mississippi river. 1,050 h.p. is also purchased from the Rideau Power Company.

The *Ottawa district* comprises a section of the municipality of Ottawa and adjacent territory. Power first delivered by Commission in July, 1907, subsequent to purchase by municipality in 1905 from Consumers Electric Company of distributing system. Three-phase, 60-cycle power is purchased from Ottawa and Hull Power and Manufacturing Company at 11 kv. and delivered directly to the municipality.

The *Madawaska district* comprises municipalities in the lower Madawaska and Mississippi and neighbouring Ottawa river valleys. Original developments were made by M. J. O'Brien Company Limited and its subsidiary the Galetta Electric Power and Milling Company Limited. The interests and properties of this company were taken over by the Commission and operation assumed 31st May, 1929. Power is obtained from developments on the Madawaska and Mississippi Rivers, the transmission voltage on the former being 33 kv. and on the latter 11 kv. The two networks are tied together through transformers at Arnprior transformer station.

TRANSMISSION LINES—110 kv. 114.5 miles; 44 kv. 629.6 miles; 33 kv. 70.3 miles; 26.4 kv. 76.96 miles.

TRANSFORMATION—Total capacity in 70 stations owned by the Commission = step up 58,930 kv-a. in 14 stations; step down 130,400 kv-a. in 5—110 kv. transformer stations and 51 distributing stations.

GENERATION

CENTRAL ONTARIO DISTRICT

Sidney Generating Station

Situated at Dam No. 2 on Trent river. Formerly property of Electric Power Company. In operation 1911. Commission assumed control 1916. Power house and intake integral with dam. Average operating head 18.5 ft.

Main Turbines—Four 1,400 h.p. Boving, vertical shaft. Total capacity 5,600 h.p.

Auxiliary Turbines—One 110 h.p. Boving, direct connected to exciter.

Main Generators—Four 937.5 Swedish General Electric Company, 3-phase, 60 cycles, 6,600 volts, direct connected to turbine. Total capacity 3,750 kv-a.

Exciters—One 75 kw. turbine driven, one 75 kw. motor driven Swedish General Electric Company 125 volts.

Transformers—Three banks = three 3,000 kv-a. Canadian Westinghouse Company, 3-phase, 6.6 to 44 kv. Total capacity 9,000 kv-a.

Frankford Generating Station

Situated at Dam No. 5 on Trent river. Formerly property of Electric Power Company. In operation 1913. Commission assumed control 1916. Power house and intake integral with dam. Average operating head 17 ft.

Main Turbines—Four 1,200 h.p. Boving, vertical shaft. Total capacity 4,800 h.p.

Auxiliary Turbines—One 100 h.p. Boving, direct connected to exciter.

Main Generators—Four 812.5 kv-a. Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbine. Total capacity 3,250 kv-a.

Exciters—One 75 kw. turbine driven, one 75 kw. motor-driven, Swedish General Electric Company 125 volts.

Transformers—Power fed at generator voltage to step-up transformers at Sidney transformer station.

Meyersburg Generating Station

Situated at Dam No. 8 on Trent river about 4 miles below Campbellford. Constructed by Commission. In operation October, 1924. Remote supervisory control from Ranney Falls plant about 3 miles up stream includes fifty-seven possible supervisory operations, and indications of operating conditions at plant. Power house and intake integral with dam. Average operating head 32 ft.

Main Turbines—Three 2,200 h.p. Allis-Chalmers, vertical shaft. Total capacity 6,600 h.p.

Main Generators—Three 2,000 kv-a. Swedish General Electric Company, 3-phase, 60 cycles, 6,600 volts, direct connected to turbine. Total capacity 6,000 kv-a.

Exciters—Three 31 kw. Swedish General Electric Company, 115 volts, direct connected to main generators.

Transformers—Three banks = three 2,000 kv-a. Packard Electric Company 3-phase, 6.6 to 44 kv. Total capacity 6,000 kv-a.

Hague's Reach Generating Station

Situated at Dam No. 9 on Trent river about 2¼ miles below Campbellford. Constructed by Commission. In operation March, 1925. Remote supervisory control from Ranney Falls plant with duplicate equipment to that at Meyersburg plant. Power house and intake integral with dam. Average operating head 22.5 ft.

Main Turbines—Three 1,600 h.p. Allis Chalmers propeller type, vertical shaft. Total capacity 4,800 h.p.

Main Generators—Three 1,400 kv-a. Canadian Westinghouse Company, 3-phase, 60 cycles, 6,600 volts, direct-connected to turbine. Total capacity, 4,200 kv-a.

Exciters—Three 30 kw. Swedish General Electric Company, 125 volts, direct connected to main generators.

Transformers—Three banks = three 1,350 kv-a. Moloney Electric Company, 3-phase, 6.6 to 44 kv. Total capacity 4,050 kv-a.

Ranney Falls Generating Station

Situated at Dam No. 10 on Trent river about one mile below Campbellford. Constructed by Commission. In operation August, 1922. Power house and intake integral with dam. Average operating head 47 ft.

Main Turbines—Two 5,000 h.p. Boving, vertical shaft. Total capacity 10,000 h.p.

Main Generators—Two 4,500 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 6,600 volts, direct connected to turbine. Total capacity 9,000 kv-a.

Exciters—Three 50 kw. Canadian General Electric Company, 125 volt; two direct connected to main generators, one motor driven.

Transformers—Two banks = two 4,500 kv-a. Canadian General Electric Company, 3-phase, 6.6 to 44 kv. Total capacity 9,000 kv-a.

Seymour Generating Station

Situated at Dam No. 11 on Trent river about 1½ miles up stream from Campbellford. Formerly property of Electric Power Company. In operation 1910. Commission assumed control 1916. Power house and intake integral with dam. Average operating head 23 ft.

Main Turbines—Five 1,100 h.p., Wm. Kennedy, vertical shaft. Total capacity, 5,500 h.p.

Auxiliary Turbines—One 110 h.p., Wm. Kennedy.

Main Generators—Five 750 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 2,400 volts, direct connected to turbines. Total capacity 3,750 kv-a.

Exciters—One 60 kw. turbine driven, one 75 kw. motor driven Canadian General Electric Company, 125 volts.

Transformers—Two banks = two 3,000 kv-a. Canadian Westinghouse Company, 3-phase, 2.4 to 44 kv. Total capacity 6,000 kv-a.

Heely Falls Generating Station

Situated at Dam No. 14 on Trent river about 5 miles up stream from Campbellford. Formerly property of Electric Power Company. In operation 1913. Commission assumed control 1916. Water conveyed from head works through three steel penstocks to turbines. Average operating head 74 ft.

Main Turbines—Two 5,600 h.p., Escher Wyss, one 5,600 h.p., Wellman Seaver Morgan double-runner, horizontal shaft. Total capacity 16,800 h.p.

Auxiliary Turbines—One 300 h.p., Escher Wyss.

Main Generators—Two 3,750 kv-a. Canadian General Electric Company, one 3,750 kv-a. Swedish General Electric Company, 3-phase, 60 cycles, 6,600 volts, direct connected to turbines. Total capacity 11,250 kv-a.

Exciters—Two 160 kw. Canadian General Electric Company, 125 volts, one turbine and one motor driven.

Transformers—Three banks = three 3,750 kv-a. Canadian Westinghouse, 3-phase, 6.6 to 44 kv. Total capacity 11,250 kv-a.

Auburn Generating Station

Situated at Dam No. 18 on Otonabee river near the city of Peterborough. Formerly property of Electric Power Company. In operation 1911. Commission assumed control 1916. Power house and intake integral with dam. Average operating head 18.5 ft.

Main Turbines—Three 960 h.p., Wm. Hamilton, horizontal shaft. Total capacity 2,880 h.p.

Auxiliary Turbines—One 135 h.p., Wm. Hamilton.

Main Generators—Three 625 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, two 6,600 volts, one 2,400 volts, direct connected to turbines. Total capacity 1,875 kv-a.

Exciters—One 135 kw. turbine driven; one 90 kw. motor driven. Swedish General Electric Company, 125 volts.

Transformers—One bank = three 200 kv-a. Canadian General Electric Company, single-phase, 2.4 to 6.6 kv. Total capacity 600 kv-a. Fed at 6.6 kv. to Auburn transformer station where it is stepped up through two 1,875 kv-a. Canadian General Electric Company, 3-phase units 6.6 to 44 kv.

Fenelon Falls Generating Station

Situated at Dam No. 30 on the Sturgeon river at Fenelon Falls. Formerly property of Electric Power Company. In operation 1899. Commission assumed control 1916. Power house and intake integral with dam. Average operating head 22.5 ft.

Main Turbines—Two 500 h.p. Samson, horizontal shaft. Total capacity 1,000 h.p.

Main Generators—Two 400 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 600 volts. Total capacity 800 kv-a.

Exciters—One 30 kw. Canadian General Electric Company, 125 volts, belt driven.

Transformers—Two banks = six 135 kv-a. Canadian General Electric Company, single-phase, air blast, 600 to 11,000 volts. Total capacity 800 kv-a.

RIDEAU DISTRICT

High Falls Generating Station

Situated on the Mississippi river at High falls immediately above Dalhousie lake. Constructed by Commission. In operation May, 1920. Water conveyed from headworks through wood-stave pipe to turbines. Average operating head 78 ft.

Main Turbines—Three 1,240 h.p., Leffel, horizontal shaft, Total capacity 3,720 h.p.

Main Generators—Four 350 kv-a. two per turbine; one 875 kv-a. General Electric Company, 3-phase, 60 cycles, 4,400 volts, horizontal shaft, direct connected to turbines. Total capacity 2,275 kv-a.

Exciters—Three 25 kw., General Electric Company belt driven.

Transformers—Three banks = three 750 kv-a., Packard Electric Company, 3-phase, 4.16 to 25.4 kv. Total capacity 2,250 kv-a.

Carleton Place Generating Station

Situated on Mississippi river at Carleton Place. Formerly property of H. Brown & Sons. In operation 1910. Purchased by Commission May, 1919. Operation discontinued June, 1920. Renovated and held as standby since that date. Average operating head 10.5 ft.

Main Turbines—Three 283 h.p. Leffel, Samson vertical shaft. Total capacity 849 h.p.

Main Generators—One 150 kv-a., one 250 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 2,300 volts. Total capacity 400 kv-a.

Exciters—Two 7 kw. Canadian General Electric Company belt driven.

Transformers—Power fed at generator voltage to low-voltage bus in Carleton Place distributing station.

MADAWASKA DISTRICT

Calabogie Generating Station

Situated on Madawaska river at lower end of Calabogie lake. Formerly property of M. J. O'Brien Limited. In operation 1917. Commission assumed control May, 1929. Power house and head works integral with dam. Average operating head 30 ft.

Main Turbines—Two 3,000 h.p. Allis Chalmers horizontal shaft. Total capacity 6,000 h.p.

Auxiliary Turbines—One 200 h.p. Allis Chalmers.

Main Generators—Two 2,000 kv-a. Allis Chalmers, 3-phase, 60 cycles, 6,600 volts, horizontal shaft. Total capacity 4,000 kv-a.

Exciters—Two 120 kw. Allis Chalmers 125 volt, one belted to main unit, one turbine driven.

Transformers—One bank = three 2,000 kv-a. Westinghouse Electric and Manufacturing Company, single-phase, 6.6 to 33 kv. Total capacity 6,000 kv-a.

Galetta Generating Station

Situated on Mississippi river at Hubbells falls about 4 miles from Arnprior. Formerly property of Galetta Power and Milling Company. In operation 1907. Commission assumed control May, 1929. Power house and head works integral with dam. Average operating head 22 ft.

Main Turbines—One 700 h.p. Wm. Kennedy, one 700 h.p. Boving. Horizontal shaft. Total capacity 1,400 h.p.

Auxiliary Turbines—Two 50 h.p. driving exciters.

Main Generators—Two 400 kv-a. Canadian Westinghouse Company, 3-phase, 60 cycles, 2,300 volts, horizontal shaft, direct connected to turbines. Total capacity 800 kv-a

Exciters—Two 30 kw. Canadian Westinghouse Company, 125 volts, connected to auxiliary turbine.

Transformers—One bank = two 125 kv-a.; two 60 kv-a. Canadian Westinghouse Company, single-phase, 2.3 to 11 kv. Total capacity 370 kv-a.

THUNDER BAY SYSTEM

GENERAL—This system comprises that portion of the district of Thunder Bay adjacent to Lake Superior and includes the lake-head cities of Port Arthur and Fort William. Power is obtained from developments on the Nipigon river.

TRANSMISSION LINES—110 kv. 164.9 miles, 12 kv. 1.5 miles.

TRANSFORMATION—Total capacity in 4 stations = step-up 117,000 kv-a. in 2 stations; step-down 45,000 kv-a. in 2 stations.

GENERATION

Cameron Falls Generating Station

Situated at Cameron falls on the Nipigon river. Constructed by the Commission and first unit placed in operation in December, 1920. Power house and head works integral with dam. Water conveyed from head works to turbine through reinforced concrete intake pipes, three for each unit, approximately 50 ft. in length and 13 ft. by 10 ft. in cross-section. Normal operating head 72 ft.

Main Turbines—Two 12,500 h.p. I.P. Morris, two 12,500 h.p. Allis Chalmers, two 12,500 h.p. Canadian Vickers. Total capacity 75,000 h.p.

Main Generators—Two 10,600 kv-a. Canadian Westinghouse Company, four 10,600 kv-a. Canadian General Electric Company 3-phase, 60 cycles, 12,000 volts vertical shaft. Total capacity 63,600 kv-a.

Exciters—Six 125 kw. direct connected to main generators, one 125 kw. motor driven.

Transformers—Three banks = nine 8,000 kv-a. Canadian General Electric Company single-phase, 12 to 63.5 kv. to operate 110 kv. star connected. Total capacity 72,000 kv-a.

Alexander Generating Station

Situated on Nipigon river about 1½ miles below Cameron falls station and remote controlled from that point. Constructed by Commission and first unit in operation October, 1930. Water conveyed through short intake canal to headworks at power house. Head pond created by large earth dam, dykes and concrete sections. Normal operating head 60 ft.

Main Turbines—Three 18,000 h.p. S. Morgan Smith Inglis. Total capacity 54,000 h.p. Provision made for installation of a fourth unit.

Main Generators—Three 15,000 kv-a., Canadian General Electric Company, 3-phase, 60 cycles, 12,000 volts vertical shaft. Total capacity 45,000 kv-a.

Exciters—Three 165 kw. Canadian General Electric Company, 250 volts direct connected to main unit.

Transformers—Three banks = three 15,000 kv-a. Canadian General Electric Company three-phase, 12 to 110 kv. Total capacity 45,000 kv-a.

NORTHERN ONTARIO SYSTEM

GENERAL—In this system are grouped three districts, viz., Nipissing, Sudbury and Patricia, at present independent, which serve portions of Northern Ontario.

The *Nipissing district* has been operated by the Commission for a number of years and includes municipalities lying immediately to the east of lake Nipissing. Power is obtained from developments on the South river. Power rights and plant formerly owned by Nipissing Power Company. Controlled by Electric Power Company Limited. Commission assumed control March, 1916, when the latter Company and all its subsidiaries were acquired by the Ontario Government.

The *Sudbury district* comprises portions of Algoma, Sudbury and Nipissing. Power is obtained from developments on the Wanapitei river. Power rights and plant formerly owned by the Wahnapitae Power Company. Control assumed by Commission April, 1930. In addition 25-cycle power from the Ontario Power Service Corporation is purchased on contract and supplied to the International Nickel Company over a 132 kv. transmission line owned by the Commission.

The *Patricia district* was established to supply power to the Red Lake mining district. Power is obtained from a new development on the English river.

TRANSMISSION LINES—132 kv. 189.0 miles, 22 kv. 84.3 miles.

TRANSFORMATION—Total capacity in 11 stations owned by the Commission = step up 19,475 kv-a. in 7 stations; step down 7,400 kv-a. in 4 stations.

GENERATION

NIPISSING DISTRICT

Nipissing Generating Station

Situated on South river about 1½ miles from the village of Nipissing. Formerly the property of Nipissing Power Company. Control assumed by Commission March, 1916. Water conveyed to plant through canal, wood-stave pipe line, and steel penstock provided with surge tank. Average operating head 90 ft.

Main Turbines—Two 1,250 h.p. Jenckes Machine Company, horizontal shaft. Total capacity 2,500 h.p.

Main Generators—One 1,400 kv-a. Canadian Westinghouse Company; one 1,250 kv-a. Swedish General Electric Company, 3-phase, 2,300 volts. Total capacity 2,650 kv-a.

Exciters—One 17.5 kw. Swedish General Electric Company, 115 volts; one 21 kw. Canadian Westinghouse Company, 125 volts direct connected to main generators; one 37½ kw. motor driven.

Transformers—One bank = three 900 kv-a. Packard Electric Company, single-phase 2.3 to 22 kv. Total capacity 2,700 kv-a.

Bingham Chute Generating Station

Situated on South river about two miles from Powassan. Constructed by Commission. In operation December ,1923. Water conveyed to plant through wood-stave pipe line. Average operating head 47 ft.

Main Turbines—Two 650 h.p., Wm. Kennedy, horizontal shaft. Total capacity 1,300 h.p.

Main Generators—Two 450 kv-a. Canadian Westinghouse Company, 3-phase, 60 cycles, 2,200 volts.

Exciters—Two 12.5 kw., Canadian Westinghouse Company, direct connected to main generators.

Transformers—One bank = three 300 kv-a. Canadian Westinghouse Company single-phase, 2.2 to 22 kv. Total capacity 900 kv-a.

Elliott Chute Generating Station

Situated on South river approximately 1½ miles up stream from Bingham Chute plant. Constructed by Commission. In operation October, 1929. Semi-automatic. Remote controlled from Bingham Chute station. Water conveyed to plant through wood-stave pipe line. Average operating head 39 ft.

Main Turbines—One 1,800 h.p., S. Morgan Smith Inglis Company propeller type, vertical shaft.

Main Generators—One 1,800 kv-a. Swedish General Electric Company, 3-phase, 60 cycles, 2,300 volts, direct connected to turbine.

Exciters—One 22 kw. Swedish General Electric Company direct connected 125 volts.

Transformers—One bank = three 650 kv-a. English Electric Company, single-phase, 2.3 to 23 kv. Total capacity 1,950 kv-a.

SUDBURY DISTRICT

Coniston Generating Station

Situated on Wanapitei river approximately 10 miles east of Sudbury. Formerly property of Wahnapitae Power Company. In operation 1905. Commission assumed control April, 1930. Water conveyed through canal to headworks. Steel penstocks to turbines. Average operating head 53 ft.

Main Turbines—One 1,200 h.p., one 1,600 h.p. Jenckes, one 3,500 h.p. Allis Chalmers, horizontal shaft. Total capacity 6,300 h.p.

Auxiliary Turbines—One 35 h.p., one 70 h.p. Total capacity 105 h.p.

Main Generators—One 800 kv-a.; one 1,250 kv-a.; one 2,500 kv-a. Canadian General Electric Company, 3-phase, 60 cycle, 2,300 volts. Total capacity, 4,550 kv-a.

Exciters—One 25 kw., one 55 kw. turbine driven, one 100 kw. motor driven Canadian General Electric Company.

Transformers—Two banks = six 800 kv-a., Canadian General Electric Company, single-phase, water cooled, 2,300 to 23,000 volts. Total capacity 4,800 kv-a.

McVittie Generating Station

Situated on Wanapitei river approximately 26 miles from Sudbury. Formerly property of Wahnapitae Power Company. In operation 1912. Commission assumed control April, 1930. Water conveyed through canal to headworks. Steel penstocks to turbines. Average operating head 38 ft.

Main Turbines—Two 1,800 h.p. Wm. Kennedy, horizontal shaft. Total capacity 3,600 h.p.

Auxiliary Turbines—One 75 h.p.

Main Generators—Two 1,250 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 2,300 volts. Total capacity 2,500 kv-a.

Exciters—Two 75 kw. Canadian General Electric Company, one direct connected to auxiliary turbine, one motor driven.

Transformers—One bank = three 625 kv-a. Canadian General Electric Company, single-phase, water cooled 2,300 to 23,000 volts. Total capacity 1,875 kv-a.

Stinson Generating Station

Situated on Wanapitei river approximately 8 miles up stream from Coniston Generating Station. Formerly property of Wahnapitae Power Company. In operation 1925. Commission assumed control April, 1930. Water conveyed through canal to headworks. Steel penstocks to turbines. Average operating head 52.5 ft.

Main Turbines—Two 3,500 h.p. Allis Chalmers, horizontal shaft. Total capacity 7,000 h.p.

Auxiliary Turbines—One 150 h.p.

Main Generators—Two 2,500 kv-a. Canadian General Electric Company, 3-phase, 60 cycles, 2,300 volts. Total capacity 5,000 kv-a.

Exciters—One 100 kv-a. turbine driven, one 100 kv-a. motor driven Canadian General Electric Company 125 volts.

Transformers—One bank = three 1,667 kv-a. Canadian General Electric Company, single-phase, water cooled, 2,300 to 23,000 volts. Total capacity 5,000 kv-a.

PATRICIA DISTRICT

Ear Falls Generating Station

Situated at Ear Falls on the English river. Constructed by Commission. In operation December,1929. Water conveyed from Lac Seul conservation dam to power house through two wood-stave pipes. Normal operating head 36 ft.

Main Turbines—One 5,000 h.p. Dominion Engineering Works, vertical shaft.

Main Generators—One 5,000 kv-a. Canadian Westinghouse Company, 3-phase, 60 cycle, 6,600 volts, direct connected to turbine.

Exciters—One 65 kw. Canadian Westinghouse Company, 125 volt, direct connected.

Transformers—One bank = three 750 kv-a. 6.6 to 44 kv. single-phase, English Electric Company. Total capacity 2,250 kv-a.

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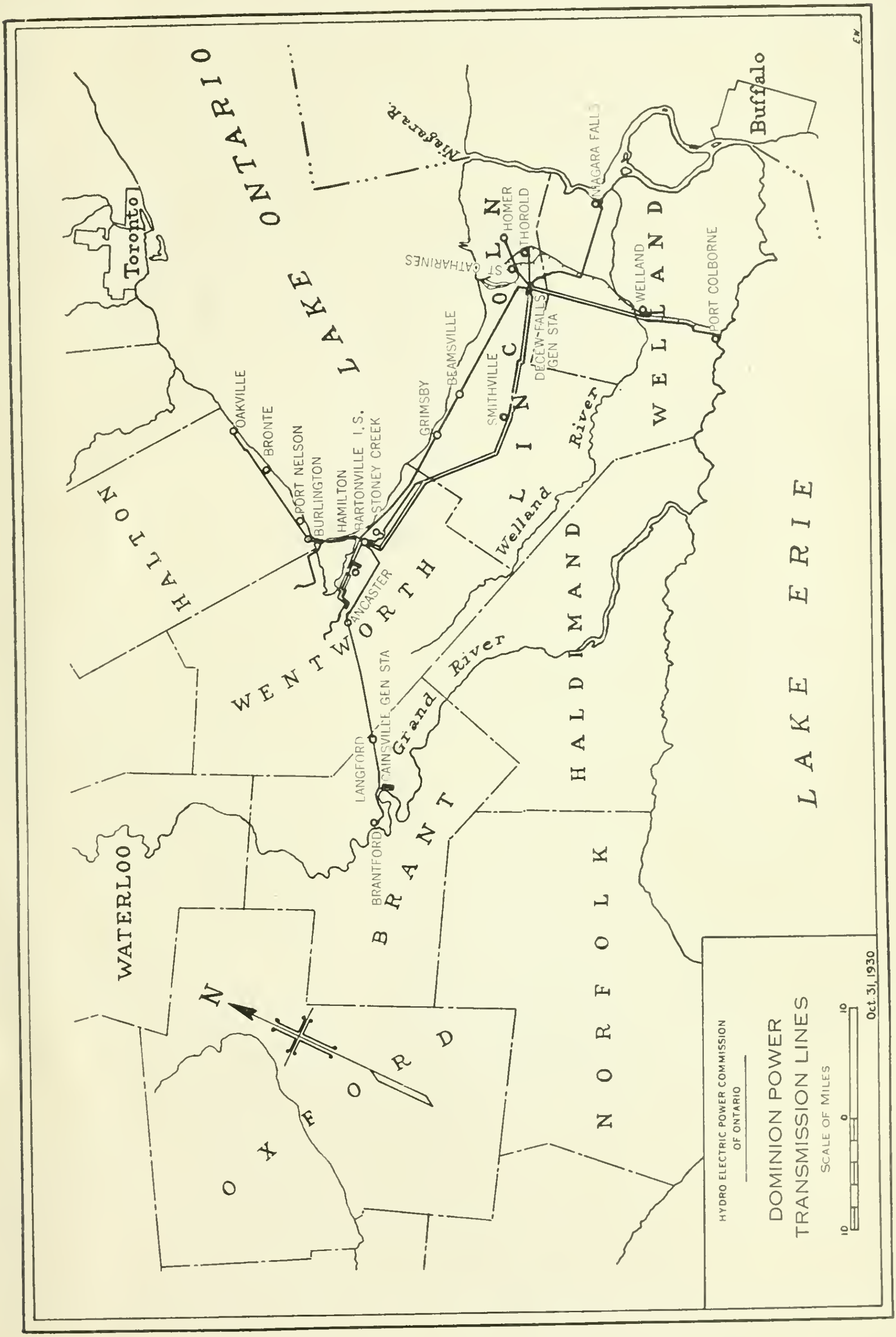
Woodbridge—Load in Horsepower...... 24
  Cost of Power......................174
  Credit or Charge Account............198
  Sinking Fund.......................206
  Municipal Accounts........A, 301; B, 345
  Statements.........C, 380; D, 398; E, 414
Woodbridge Rural Power District—Load in Horsepower.................... 26
  Miles of Line, Consumers and Rates... 82
  Cost of Power......................182
  Operating Report...................190
  Credit or Charge Account............202
  Sinking Fund.......................207
  Details of Construction in............458
Woodstock—Load in Horsepower....... 24
  Cost of Power......................174
  Credit or Charge Account............198
  Sinking Fund.......................206
  Municipal Accounts........A, 301; B, 345
  Statements.........C, 380; D, 386; E, 414
Woodstock Rural Power District—Load in Horsepower.................... 26
  Miles of Line, Consumers and Rates... 82
  Cost of Power......................182
  Operating Report...................190
  Credit or Charge Account............202
  Sinking Fund.......................207
  Details of Construction in............458
Woodville—Load in Horsepower........ 33
  Cost of Power......................212
  Credit or Charge Account............224
  Sinking Fund.......................227
  Municipal Accounts........A, 311; B, 355
  Statements.........C, 380; D, 398; E, 414
Wroxeter Rural Power District—Load in Horsepower..................... 34
  Miles of Line, Consumers and Rates... 84
  Cost of Power......................216
  Operating Report...................220
  Credit or Charge Account............224
  Sinking Fund.......................227
  Details of Construction in............459
Wyoming—Load in Horsepower........ 24
  Cost of Power......................174
  Credit or Charge Account............198
  Sinking Fund.......................206
  Municipal Accounts........A, 301; B, 345
  Statements.........C, 380; D, 398; E, 414

Y

York Township—Municipal Accounts ....A, 301; B, 345
  Cost of Power and Rates for Service...414
York, East, Township. (See East York Township).
York, North, Township. (See North York Township).

Z

Zurich—Load in Horsepower........... 24
  Cost of Power......................174
  Credit or Charge Account............198
  Sinking Fund.......................206
  Municipal Accounts........A, 302; B, 346
  Statements.........C, 380; D, 398; E, 414


HYDRO ELECTRIC POWER COMMISSION
OF ONTARIO
DOMINION POWER
TRANSMISSION LINES
SCALE OF MILES
10
0
10
Oct. 31, 1930
LAKE ONTARIO
Toronto
Niagara R.
Buffalo
NIAGARA FALLS
HOMER
THOROLD
ST CATHARINES
LINCOLN
WELLAND
WELLAND
PORT COLBORNE
DECEW-FALLS
GEN STA
SMITHVILLE
BEAMSVILLE
GRIMSBY
STONEY CREEK
BARTONVILLE T.S.
HAMILTON
BURLINGTON
PORT NELSON
BRONTE
OAKVILLE
HALTON
WENTWORTH
ANCASTER
CAINSVILLE GEN STA
LANGFORD
BRANTFORD
BRANT
Grand River
Welland River
HALDIMAND
NORFOLK
LAKE ERIE
WATERLOO
OXFORD
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